Nor is the profit small the peasant makes,
Who smooths with harrows, or who pounds with rakes,
The crumbling clods; nor Ceres from on high
Regards his labors with a grudging eye;
Nor his, who ploughs across the furrowed grounds,
And on the back of earth inflicts new wounds;
For he, with frequent exercise, commands
The unwilling soil, and tames the stubborn lands.
Virgil, *Georgics*

FEDCO

2004

index

Ordering information

	Goods offered	Descriptions begin	Order form	Discount deadline	Ordering deadline	Shipments
Seeds	vegetables, flowers, & herbs	page 10	page 64A	none	April 2	January 7–April
Moose Tubers	seed potatoes, onion sets	page 89	page 64C	February 27	April 9	early April–early May
Organic Growers Supply	soil amendments, cover crops, tools, supplies & books	page 98	page 64E	none	none	year-round
Seedlings	organic seedlings	page 64G	page 64G	none	May 14	April 26–May 24

Our FEDCO TREES catalog, available in October, lists fruit trees, berry bushes, ornamentals, perennials and tender bulbs.
Our FEDCO BULBS catalog, available in June, lists fall-planted flower bulbs and garlic.

Full Index on Back Cover

Phone (207) 873-7333

A Fedco Primer for New Friends and Old

Fedco has four divisions: Seeds, Moose Tubers and Organic Growers Supply, Trees, and Bulbs, and sends out three catalogs annually. We work out of two warehouses on the Upper Bellsqueeze Road in Clinton. Our business office is in nearby Waterville. We do not have a retail store. We deal exclusively by mail and fax order except during designated pickup and public sale days, our annual excursion to the Common Ground Country Fair, and periodic visits to other special events.

In our part of the world frosts can occur nine months of the year and the ground remains frozen for about five months from late November until mid-April.

Trees are alive, highly perishable, must be kept cool and wet and cannot freeze. We ship trees and perennial plants only in the spring.

Fall bulbs and garlic are alive, perishable, need to be kept cool but cannot freeze. We ship only in fall just before planting time.

Seed potatoes and onion sets are alive, perishable, must be kept cool but cannot freeze. We ship only in April and May**.**

Seeds are alive, dormant, must be kept cool and dry, may freeze if kept dry. We ship in winter/early spring. In April, we close the seed division for the season.

Books and supplies are not alive. We ship year-round. We ship **cover crops**, which are alive, year-round when available.

How to Order

Mail your order to Fedco Seeds, PO Box 520, Waterville, ME 04903.

Fax your order to (207) 872-8317. Look to the right for more details. Fax orders include credit card number and expiration date and pay a $2 handling charge.

All orders must enclose check, money order, or Visa or MasterCard information. We request that orders under $25 pay with a check or money order. Please do not send cash. Sorry, we do not accept food stamps.

We will charge your credit card when we ship your order. We will bill or refund you for any adjustments as each order is completed. We do not charge the adjustments to your credit card.

Because they work out of separate warehouses and/or have separate shipping schedules, each division has its own order form.

- Please use the proper order form for each division.
- Please do not mix orders from separate divisions on one form.
- You may send in separate forms from more than one division at the same time and pay with one check. Figure totals for each division on the proper form, then add division totals to figure your grand total.

How Not to Order

- Sorry, we do not accept telephone orders.
- Sorry, we do not have a rush order service.
- You may not combine orders from different divisions to qualify for discounts or to avoid small-order handling charge.
- We will return the following orders unfilled: illegible orders, certain orders past final deadline, or on maverick computer-generated forms. We will mail you the proper order form so you can try again.

Faxing your Order

- Use our fax line: (207) 872-8317.
- Include a phone number where we can reach you. We will not call to confirm receipt of faxes, but if there is a problem, we'll let you know.
- Please use **our** order form or a **properly formatted** computerized form.
- Make sure your order is legible; faxes lose clarity in transmission.
- Be sure to include your credit card number *and* expiration date.
- **Please do not fax** us the **same order more than once** unless **we** call requesting a clearer copy. We don't want to fill your order twice.
- **Please do not mail another copy** after you fax your order.

Fedco Facilitation

- Phone us: (207) 873-7333
- Regular hours: Jan.-April, Mon-Fri, 9am-5pm. We are available at irregular hours the rest of the year. If you don't get a live person, please leave a message.

Use this line to:

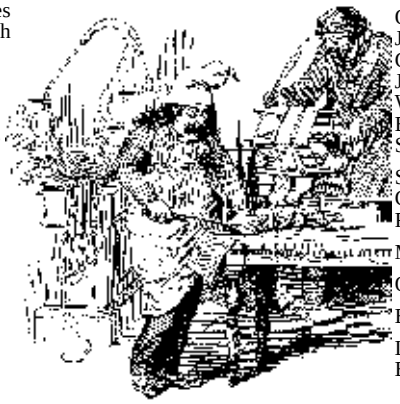
- Request more catalogs or order forms.
- Get answers to ordering questions.
- Receive freight quotes and prices for bulk quantities.
- Get your cultural questions answered.
- Track your order.
- Resolve problems.

We ask your cooperation in helping us hold prices down by avoiding the following calls which add to our labor costs without offering you any benefits:

- Frozen spuds: We cannot ship potatoes until April because we do not have a potato storage facility. Our seed stock arrives at the end of March.
- Nervous Neds & Nellies: For seeds and supplies please allow at least 2-3 weeks after sending order before calling. For spuds, see above.
- Order corrections: For one or a few mistakes please mail back the correction form on the back of your pick sheet instead of calling.
- Deadline dilemmas: At, around or just past deadlines, please mail or fax your order. We'll do the best we can. Please do not call.
- Way past deadlines: We take order deadlines seriously. Please remember the refrain of Cubs and Red Sox fans and "Wait till next year!"

Visit our Website at www.fedcoseeds.com

- to download order forms from each division.
- for up-to-date information on backorders and out-of-stocks for all divisions.



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Moose Tubers copy: Alison LaCourse

OGS copy: David Shipman

Editor: Susan Kiralis

Layout: Gene Frey, Elizabeth Radliff, Bria Sanborn

How to Order Seeds

- We prefer orders on our 2004 seed order form. **Please, no lists.**
- Use the order blank in the center, page 64A.
- Order books and cover crop seed from Organic Growers Supply, see p. 4.

New This Year

- Expanded warehouse space for seeds and trees including a walk-in cooler for controlled atmosphere storage.
- Certified organic seeds with prices but no descriptions are in the front of the catalog beginning on page 10. All varieties (including organic and conventional) are listed with full descriptions in the main body beginning on page 14.

Deadline

•All orders must be received by Fri. Apr. 2 final order deadline.

Discounts

All discounts are figured from the adjusted total on your order sheet.

Volume discounts:

Orders over $100 deduct 10%
Orders over $200 deduct 15%
Orders over $300 deduct 20%
Orders over $600 deduct 22%
Orders over $1000 deduct 24%

Repeat orders over $50 qualify for the same volume discount as the first order, provided they are to be sent to the same address.

Pickup discount 10% on all pickup orders. (see Pickup for details).

Organic grower discount: Members of MOFGA, NOFA, PASA or a comparable organic growers organization receive a 1% discount. You need not be certified organic or a commercial farmer to take the discount, and you may join MOFGA or NOFA with your seed order. Please specify which organization/state chapter you are joining. See page 7, Resources, for dues.

Group orders See page 64.

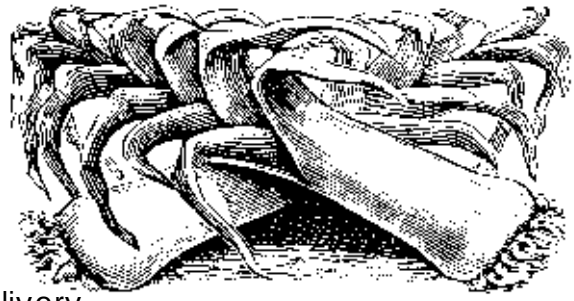
Sales tax

Maine residents pay 5% on flower seed. **Please do not charge yourself sales tax on vegetable and herb seed**. Maine farms and retailers: Send us your state resale ID number.

There is no sales tax on anything for folks outside of Maine.

In genial winter, swains enjoy their store,
Forget their hardships, and recruit for more.
The farmer to full bowls invites his friends,
And, what he got with pains, with pleasure spends.
— Virgil

Virgil quotations this year all from the *Georgics*, 30 BCE, John Dryden translation.



Delivery

UPS/Priority Mail

- **Free shipping for seed orders over $25 (items 200-6499)** in the continental United States. AK, HI and APO/FPO add 15% of order total.
- We ship via UPS ground or USPS Priority Mail; our choice, based on weight.
- We pull and ship orders according to their *arrival* date, *not* their postmark date.
- If you'd like us to hold your order for a later shipping date, please attach a note to your order form.
- We will not ship **any** orders before Jan. 7.
- We ship orders as soon as possible, often within one week of receipt, always within two weeks.
- Early orders (before Jan. 20) and late orders (after Mar. 10) receive the fastest service.
- Peak season orders (Jan. 20-Feb. 28) take longest.
- Missing your shipment? Allow three weeks from your mailing date, then call.

PICKUP Come to our warehouse in Clinton. See the map on page 4.

Seeds and OGS pickup We will send confirmation postcards with directions and your order number when your order is ready to pick up (within 1-2 weeks of receipt of order). Pick up during regular warehouse hours, **Wednesdays and Fridays only**, 9:00-4:00. Sorry, no pickups on other weekdays or weekends.

Moose Tubers pickup Pick up during the Moose Tubers pickup, Thurs-Fri, Apr. 8-9, 9:00-4:30. We must have your order by Fri, Mar. 19.

Tree Sale pickup Fri-Sat, Apr. 30-May 1, 9:00-3:00.

Backorders are items not available at time of shipment which come in later. Our aim is to minimize them.

- Early orders receive the most backorders.
- We ship backorder items that need an early start ASAP after we receive them.
- We batch other backorder items to reduce our shipping costs.
- Allow several weeks after receipt of your first shipment for direct-seeded backorder items.
- Orders received after Mar. 12 will be filled from available remaining stock. No backorders.
- We will ship all backorders by Mar. 26. Please call if you are still missing any backorders or have not received a refund by Apr. 9.
- REFUNDS will be enclosed with your final shipment. INVOICES are enclosed with first shipment.

Bulk Orders

- For quantities significantly larger than listed in the catalog (multiples of 4 or more) please call for availability and price quote. Use a line on the order form for each quoted deal.

Computer-Generated Order Forms are acceptable provided they *follow the exact format* of our order form.

- Place columns in the same order with the same information.
- Eliminate or move to the right added information, such as item name.
- Make subtotals every 20th, 40th, 60th, 106th, 152nd, 200th item.
- Insert breaks every fourth item with a heavy line or by skipping a line.

Fedco Seeds guarantees that all items we offer are fully satisfactory. If you are dissatisfied for any reason, we will either replace the item or refund the purchase price.

Limitation of Liability

Because good results depend upon weather, soil and cultural practices over which we have no control, we limit our liability in all instances to the purchase price of the seeds, as is customary in the seed trade. The liability of Fedco Seeds for breach of warranty, or any loss or damages arising out of the purchase or use of our products, including loss or damages resulting from any negligence whatsoever on our part, or strict liability in tort, shall be limited to the purchase price. By acceptance of the merchandise, the buyer acknowledges that the limitations and disclaimers herein described are conditions of sale, and that they constitute the entire agreement between the parties regarding any warranty or liability.

Claims for errors in your order must be presented within 30 days of receipt of your order. Claims for defects in Fedco Seeds' products should be presented to Fedco Seeds as soon as possible after discovery. Failure to assert claims within 30 days after discovery renders this warranty null and void.

How To Order Seed Potatoes from Moose Tubers

- All orders must be on one of our Moose Tubers 2004 order forms.
- Use the order blank in the center of the catalog on page 64C.
- Variety descriptions begin on page 89.

Moose Tubers Deadlines

Orders **received** by:	qualify for:
Feb 27	Volume discounts & best selection
March 19	Moose Tubers pickup
April 9	Final orders for the season, potato supply limited

Moose Tubers Discounts

- We must receive your order by February 27.
- Figure your discount from your order total **before** shipping.

Orders over $100 deduct 5%
Orders over $200 deduct 10%
Orders over $400 deduct 15%
Orders over $850 deduct 20%

For amounts over 1200 lbs, please call or write for our bulk price list.

Moose Tubers Shipping

- **We begin shipping Moose Tubers orders in early April.**
  We cannot ship before that; please do not ask us to do so.
- We will ship orders received by February 27 by April 16.
- We ship sunchokes separately in early May.

To Order Supplies & Cover Crops Organic Growers Supply

- All orders must be on one of our OGS 2004 order forms.
- Use the order blank in the center of the catalog on page 64E.
- Introduction begins on page 98, descriptions on page 100.

OGS Deadlines

Orders **received** by:	qualify for:
April 2	Moose Tubers pickup
April 23	Tree Sale pickup

There is no final order deadline for OGS. After the Tree Sale, the OGS warehouse will be open Wednesdays from 2-5 pm for pickups and walk-in customers.

OGS Discounts

- There is no deadline for discounts.
- Figure discounts from your total **before** adding shipping charges.

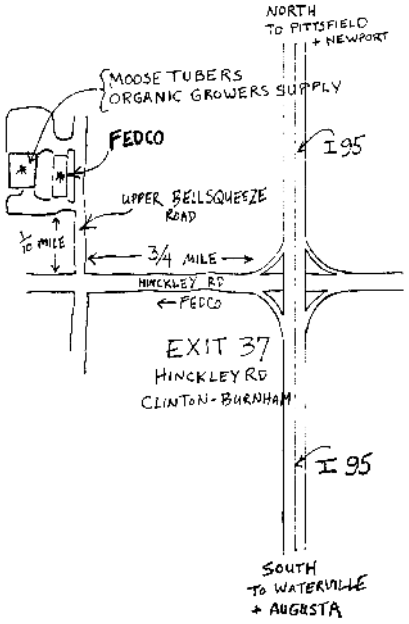
Orders over $100 deduct 5%
Orders over $200 deduct 10%
Orders over $600 deduct 15%
Orders over $1200 deduct 20%
Orders over $2500 call for a quote

OGS Shipping

- **We begin daily shipping of Organic Growers Supply orders on Jan. 19.**
  From mid-May to mid-January we ship once a week, usually Weds.
- Generally we will ship your order within one week; however, we will not ship orders received after March 19 before April 8.

Sales tax: Maine residents only! Items #9000-9999 are taxable. No tax on any other items. No tax for out-of-state residents. Maine farmers: Please send us your state resale number.

- Contact us if you need more order forms or download them from the web: **www.fedcoseeds.com**.
- Be sure to include shipping charges (see chart below).
- **Groups** mail us all the individual orders from your group along with one payment and one order form as a cover sheet for group totals and shipping address. We will ship individually packaged orders *to one address*. Group gets volume discount and shipping rates based on the combined total. We recommend making copies of orders before



Shipping

- We ship via **UPS** ground or USPS **Priority Mail**; our choice, based on weight.
- Prices do not include shipping. Use the chart below to figure shipping costs.
- We ship all orders to **Alaska** and **Hawaii** by **Priority Mail**.
- We do not use parcel post for shipping. If UPS can't find your house, please arrange delivery to your workplace or a neighbor. Or have your order shipped **Priority Mail**; use the rates for AK and HI.

Common Carrier

- In New England, we have a flat rate for pallets weighing up to 2000 lbs. ME, $55; NH & VT, $73; MA &RI, $78; CT, $85; NY (zip codes beginning with 105, 120-149) $85. For home or school deliveries, add $40 per pallet.
- For delivery to other states: If your shipment weighs more than 1000#, call us with the estimated weight and the destination zip code. We will check with trucking companies and quote you a price. In some instances UPS will be cheaper. Include a phone number where you can be reached during the day with your order.

Pickup

OGS orders We will send a postcard (usually within 2 weeks of receiving your order) with directions and your order number when your order is ready to pick up. You may come **Wednesdays or Fridays** 9:00-4:00. If your order is over 500#, please call the day before you plan to come or be prepared to wait.

Moose Tubers orders are available for pickup at:

Moose Tuber pickup Thurs and Fri, April 8-9 from 9:00-4:30.

Tree Sale pickup Fri and Sat, April 30-May 1, from 9:00-3:00 are reserved for customers with preorders. We will send a postcard with directions and your order number.

- We do **not** ship to **Canada**, and will not provide materials required for importation permits.

If your order weighs ☞ / And your zip code begins with:	0-2 lbs.	up to 5 lbs.	up to 10 lbs.	up to 15 lbs.	up to 20 lbs.	up to 25 lbs.	up to 30 lbs.	up to 35 lbs.	up to 40 lbs.	over 40 lbs.	over 175 lbs.	over 250 lbs.	over 500 lbs.
030-059	$4.25	$7.40	$8.00	$8.80	$9.40	$10.20	$11.00	$11.80	$12.60	32¢/lb	23¢/lb	17¢/lb	12¢/lb
010-029, 060-069, 119-136	$4.25	$7.70	$8.30	$9.40	$10.50	$11.60	$12.40	$13.40	$14.40	36¢/lb	23¢/lb	19¢/lb	17¢/lb
070-089, 100-118, 137-227	$5.00	$8.30	$8.80	$9.60	$10.70	$11.80	$13.20	$14.60	$16.00	40¢/lb	23¢/lb	23¢/lb	20¢/lb
228-475	$5.50	$8.50	$9.40	$10.20	$11.80	$13.50	$15.10	$17.00	$18.70	47¢/lb	29¢/lb	29¢/lb	23¢/lb
476-574	$5.75	$8.50	$9.90	$11.80	$14.00	$16.50	$18.70	$20.90	$23.10	58¢/lb	33¢/lb	33¢/lb	26¢/lb
others except AK and HI	$6.25	$8.50	$11.80	$15.40	$18.70	$22.00	$25.30	$28.90	$32.20	80¢/lb	42¢/lb	42¢/lb	35¢/lb
AK and HI	$6.25	$12.35	$19.50	$28.00	$36.65	$45.25	$53.85	$62.40	$71.00	1.70/lb			

FEDCO·SEEDS

Co-op Seed Packers

"We've enjoyed your entertaining and informative catalogs, cooperative nature and low prices. Fedco's seeds have helped gardens flourish in Downeast Maine for a long time. Let's keep it going!"
Carol Varin, Beddington, ME

Welcome to our 26th season and thank you for making our 25th anniversary year one of our best ever! We again set a new record for seed sales, nearly $600,000 even after a few more out-of-stocks than we would have liked. We had our largest overall selection and most organic offerings (until this year), our best collating and order fulfillment accuracy and our fastest order turnaround time yet. A tough act to follow, but we are ready for the challenge!

Cooperation is our theme this year. Many interesting small seed companies have arisen in the last 30 years, but what gives Fedco its special character is its history as a cooperative. We are one of the few seed companies in the United States organized as a cooperative. Consumers own 60% of the cooperative and worker members 40%. Consumers and worker members share proportionately in the cooperative's profits through our annual patronage dividends.

What does it mean that Fedco is a cooperative? Does it matter? We believe that it matters a great deal. It matters because our profits don't go just to one or a handful of entrepreneurs. It matters because when we have an issue that concerns all of us, we discuss it and decide together instead of having a boss tell us what to do. It matters because we are here primarily not to make money but to serve our customers and our members. In an era that pays unprecedented homage to the almighty bottom line, we say that the true bottom line must be measured by a whole lot more than the last entry on our income statement.

Where Have All the Co-ops Gone?

Fedco Seeds grew out of the "new wave" food co-operative movement of the 1970s, starting in 1978 as a project of the Maine Federation of Co-operatives. Fedco stands for Federation of Cooperatives. The Federation also ran a co-operative food warehouse in the late seventies and early eighties.

I was saddened last winter when member-owners of Northeast Cooperatives, the regional food cooperative warehouse, voted to merge with United Natural Foods, Inc., a huge private distributor. Northeast members acquiesced in the merger under extreme financial duress, having been told by General Manager George Southworth that it was their only alternative to bankruptcy. How could Northeast, despite rapid growth, yearly sales exceeding $130 million, a new physical plant, and a strong network of more than 1,200 buying clubs, retail co-ops and private stores, nevertheless have lost so much money?

In the fiercely competitive, rapidly growing natural foods market, Northeast had chosen to slug it out against United in a coast-to-coast expansion battle. Although Southworth was fond of talking about how Northeast had to become the 600-pound co-op gorilla, in the end it more closely resembled the 98-pound weakling. United, a combination of Stowe Mills and Cornucopia plus 22 other mergers, had 10 times the sales and 80 times the equity of Northeast.

With the demise of Northeast, of 28 consumer co-operative food distributors in 1982, only three are left standing! I have seen a similar pattern in the wholesale seed industry and in the organic and natural foods industry during the same time period. General Mills owns Cascadian Farms. An investment group bought out Walnut Acres.

In the wake of consolidations, consumer prices generally increase and choices decline. After a spate of mergers seed giant Seminis doubled its prices and shrank its selection. The pattern has been no different in the natural foods sector.

I talked to co-op store workers in three different states. All agreed that under United, jobs had been lost, prices had gone up, service had deteriorated, and product choices had narrowed. As Annie Gaillard of Buffalo Mountain (Hardwick, VT) lamented, "We've lost control of our industry." Under United, "what sells is what counts."

Northeast used to offer minimal cost workshops to train people how to run their stores better. These were needed because "90% in the co-op grocery industry are winging it." Now they are gone. Northeast had a Management-for-Hire program. They'd get someone in to manage your store for a while or to help you find a manager and they often gave good personnel advice. Gone. Northeast had a recycling program for aseptic soy milk boxes. That was gone within a week.

United's limited selection, large case lot requirements and high prices are particularly burdensome to buying clubs, according to Kip Penney, longtime Maine co-oper and now on the Belfast Coop Store Board. Alice Rubin of Willimantic (CT) goes further, accusing United of wanting buying clubs and small co-op stores out of business.

"I can't always get what I want," laments Robin Leslie of Buffalo Mountain. Rubin echoes that concern. Because United is so large, they have cut the smaller producers out of the distribution picture. "Everything is a trial just to get your food and you don't have any place else to go. No choice," she says.

Actually, there is a choice more and more co-opers are turning to. The small Associated Buyers warehouse in New Hampshire is serving an increasing number of co-ops in the region. Associated chose a different path from Northeast, one which calls into question the "get big or get out" assumptions that the co-op distributors increasingly adopted. Content to serve their niche, flexible about case lots, Associated seems to be thriving.

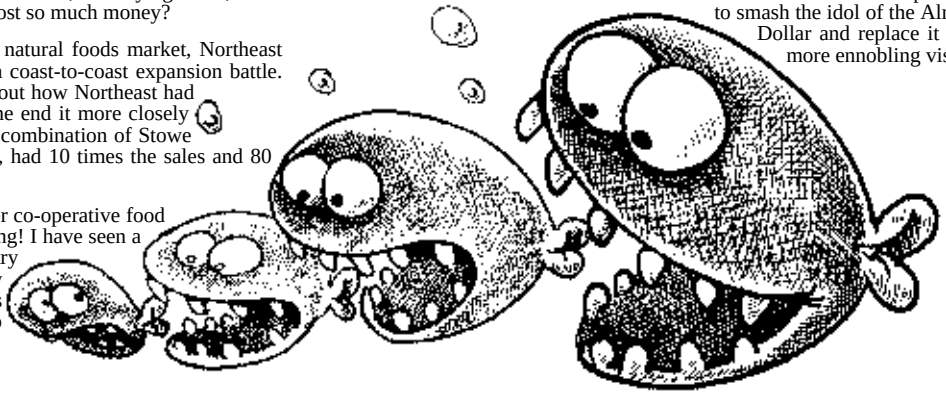
Rubin, though finding much to praise about Northeast, feels they acted too much like a regular business instead of a coop. They needed more member support but didn't come out and ask for it until too late. Lamented Gaillard, "Southworth came to Northeast from Trader Joe's and his vision was always corporate. There are so few co-op managers who understand what a coop is," she concluded, noting with hope that the University of Nova Scotia has just created a master's degree program for training people to be cooperative managers.

Consolidation constricts our choices as consumers. True in the natural foods industry, just as true in the seed industry. At least a dozen items we have been carrying were dropped in the past year by our multinational suppliers, usually without prior warning. Sometimes we can cushion the blow by buying up remaining stocks. Sometimes we can't. Sooner or later we lose these varieties.

Seed choices are food choices, too. That's why we think it important not to be totally dependent on the big guys. We have no more influence on Seminis' line than Buffalo Mountain has on United's.

Food co-ops are finding out how important it was to have co-op food distributors. Some talk of a possible niche for a co-op distributor who would stock more local and regional brands. We think it is also important to have some control over our seed supply. That's why we have a network of growers producing some of the seed we offer. And that's why we think it is important to serve as a retailer and a distributor of the seeds for some of those uncommon varieties. Sure they cost more to produce, but like good food, they are worth it.

What can we learn from Northeast's passing? First, bigger is not always better, even in competitive industries. Leave the 600-pound gorillas to the World Wrestling Federation! Second, diversity is good not only in eco-systems but also in economic and social systems. Celebrate the local, the quirky, those who tread the less well-beaten paths. Third, don't let the grass roots shrivel. Water them with your energy and your dollars. Strength comes from the bottom up, not the top down. Most importantly, we must share ideas on how we can reformulate our social and economic paradigms to smash the idol of the Almighty Dollar and replace it with a more ennobling vision.



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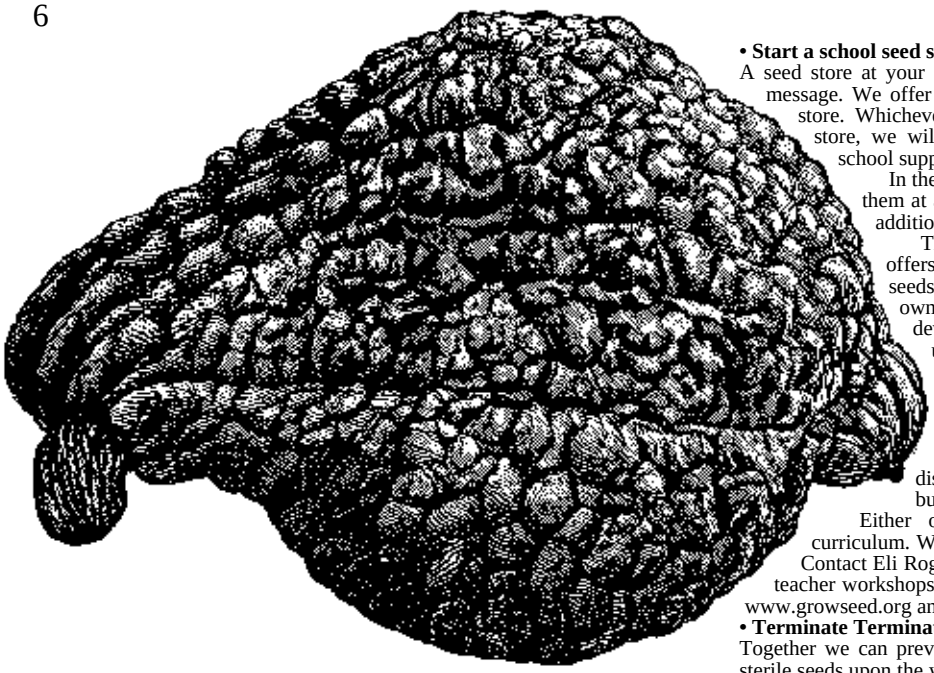


We Love to Hear from You and often

respond to your comments and letters. Your ideas and suggestions stimulate our thinking and help us to improve our catalogs, products and service. Here are some ways you can help us:

Tell us how our varieties performed for you. Did you especially like something? Was something disappointing? Let us know. Tell us why. Please include the specific variety and lot number. The more details you furnish, the more we can learn. Sometimes we're able to write back with a helpful suggestion.

Suggest new varieties for us to carry. Be these heirlooms which have been rediscovered, new varieties from modern breeding programs, or old standbys we've overlooked, your suggestions always interest us. The more specific your opinion, the more useful to us. And please tell us whose seed you've been using.

Share your ideas for how we can improve service. Even if we are unable to implement your idea, it is still invaluable to us. Ideas show us areas we need to improve and lead us to possible solutions.

Join our network of trial gardeners. We are interested only in experienced successful gardeners with good record-keeping skills. We discourage organic purists because often trial samples have been fungicide-treated by the supplier. We give preference to trialers from Maine and other cold climate states who can test varieties in the growing conditions of the primary region we serve. For 2004 we need trialers of beans, corns other than sweet (dent, flint, pop, ornamental), melons, watermelons, winter squash, radishes, turnips, cauliflowers, kales, eggplants, peppers, tomatoes, peas, herbs both culinary and medicinal, everlastings.

Send us seed of an heirloom variety which you think has commercial potential. We will grow it out to see if we agree. Our Cracoviensis lettuce, Nero di Tuscana kale, Blue Beech paste tomato and New Hampshire Golden Midget watermelon all resulted from this type of collaboration.

Send us your old seed catalogs or old classic references. We collect seed catalogs before 1970 and old garden books, especially those with good black-and-white drawings. They enhance our catalog with historical references and illustrations.

The Campaign for the Living Seed

• Support local farmers: Keep our food $ close to home.
Not only do we strengthen rural communities, but we also reduce dependence on nonrenewable foreign energy sources. We put a human face on our food supply and eat food that is fresher and tastes better.

• Grow Seed Security Gardens: Reclaim our seed security.
Just as many Americans during World War II grew Victory Gardens to secure an independent food supply, gardeners and farmers can grow seed gardens to secure an enduring independence from multinational corporations. Use our simple kit to start on the adventure of growing your own seed. Included is Rob Johnston's basic manual *Growing Garden Seeds*, 3 oz. of silica gel for keeping seeds dry, 10 small seed envelopes and one packet each of an heirloom bean, lettuce and tomato variety, all easy-to-grow seeds. See #**9363** in the Organic Growers Supply section. We offer this $7.60 value for only $6 as an incentive to get going!

• Start Seed Schools: Bring the seeds back home.
Every child should have the opportunity to learn where food comes from and how to grow food. Let us pass our agricultural heritage on to the next generation! Fedco offers a free 41-page illustrated activity guidebook with grade-by-grade seed projects to bring young gardeners through the full cycle from seed to seed.

• Start a school seed store.
A seed store at your school can be a fund-raiser with a wholesome green message. We offer two options: the packet seed store and the bulk seed store. Whichever you choose, whatever theme you desire for your store, we will help you select varieties for resale to parents and school supporters.

In the packet model you purchase multiple packets and resell them at a profit. All applicable volume discounts apply plus an additional 10% school seed store packet discount.

The bulk Seed Store is more work, a lot more fun, and offers far greater money-making potential. Schools purchase seeds in bulk and students repack the seed to sell at their own Seed Store. Students design their own seed packets, develop their marketing strategy, and learn practical math using scales and scoops. They will discover the financial benefits of cooperation, learn priceless business skills, and wrestle with age-old ethical questions that are at the core of any profit-making enterprise. To keep overhead low we can provide seed envelopes to you at cost. All applicable volume discounts apply plus an additional 5% school seed store bulk discount.

Either option can be integrated into your Seed School curriculum. Write or call Fedco if you have questions about ordering. Contact Eli Rogosa Kaufman (humus1@netvision.net.il) to learn about teacher workshops and the student-run seed company in Belfast, or go to www.growseed.org and click on Youth Programs.

• Terminate Terminator: Keep our seed alive.
Together we can prevent a handful of greedy corporations from unleashing sterile seeds upon the world. Let us keep the seed alive and preserve the rights of gardeners and farmers everywhere to save their own seeds! To mount a political protest, write your senator and congressperson. Write to the USDA. Write to the President. Fill out the suggestion cards in your supermarket. Tell them that you don't want to purchase genetically engineered foods and that you insist on labels. Tell them you will boycott all corporations using products which employ Terminator Technology. Get ready to carry out that resolution.

Technical Assistance for Seed Growers

We are in the second year of a three-year Northeast SARE-funded project called Restoring our Seed. A team headed by CR Lawn and Eli Kaufman is working with farmers in Maine, Massachusetts and Vermont to strengthen regional on-farm seed production and crop improvement. More than 100 seed savers, producers and breeders attended workshops and field days at MOFGA and Highmoor Farm in 2003 learning about integrating seed production into whole-farm cropping systems, maintaining and improving selfers and crossers, finding an appropriate production scale, identifying, preventing and responding to plant diseases and much, much more. We are bringing expert breeders such as John Navazio, Frank Morton, Raoul Robinson and George Moriarty to share their knowledge with our regional seed growers and working closely with Mark Hutton of Maine Cooperative Extension, and the Public Seed Initiative, a collaboration between NOFA-NY, the Farmer Cooperative Genome Project, Cornell University and the USDA-ARS Plant Genetic Resources Unit in Geneva, NY. We invite all who are interested in seed production, especially in commercial quantity, to visit our website at **www.growseed.org**.

Help MOFGA'S Programs Grow

Over the years, from our founding right up to the present, our fortunes and MOFGA's have been inextricably linked. Just as Fedco continues to improve our facilities in Clinton, MOFGA is doing likewise in Unity.

Thanks largely to the generosity of our customers who donated more than $15,000 over the past two years, Fedco exceeded both its pledges to MOFGA's successful $3.1 million capital campaign. That campaign is over, but MOFGA still has many unmet needs.

We hope you will help us continue our strong support. On the bottom of the totals page of your Seeds order form we have left a line for making an optional donation. For an even more painless way to contribute, direct us to donate all or part of your refund by checking a box on the totals page. Thank you for your support.

$ Fedco Supports Sustainable Agriculture $

At our 2003 Annual Meeting, the staff voted to allocate $3,150 to our Educational Subsidy Fund for next year. We donate this money to individuals and groups working on projects that further goals of cooperation, preserve and extend our genetic diversity, and educate consumers, gardeners and farmers about the benefits of sustainable agriculture. We help underwrite the Scatterseed Project, NOFA's *Natural Farmer* newspaper, MOFGA's fairgrounds and education center, the annual Vermont NOFA winter conference, Maine Apple Day and other worthy endeavors. We invite individuals and groups with educational, cooperative or research projects to write for an application.

RESOURCES

Seed Saving Organizations

The Seed Savers Exchange, 3076 N Winn Rd, Decorah, IA 52101, www.seedsavers.org, founded by Kent and Diane Whealy, is a grassroots network of gardeners and plant collectors who maintain and distribute rare varieties of food crops. Their 2003 Yearbook listed 814 members who maintain a combined collection of over 12,000 different vegetable varieties. The SSE houses their collection of 24,000+ varieties including 4100 tomatoes, 3500 beans, 1200 peppers, 950 peas at their 170-acre Heritage Farm. Annual membership is $30. **The Flower and Herb Exchange**, whose members maintain over 1000 varieties of heirloom herbs and flowers, is at the same address. Annual membership in FHE is $10.

The Scatterseed Project, Box 1167, Farmington, ME 04938, is a regional seed exchange for this area and curator for a substantial part of the SSE collection. They do not have a catalog; all varieties are available through SSE. Scatterseed maintains around 1060 varieties of peas and 650 of potatoes among its over 3000 plant varieties.

Butterbrooke Farm Seed Co-op, c/o Thomas Butterworth, 78 Barry Rd. Oxford, CT 06478-1598, is a seed savers cooperative in Connecticut which publishes a newsletter and has a seed exchange. Send a SASE for more information. Annual membership is $15.

Catskill Mountain Heirloom Seed Conservancy, PO Box 309, Denver, NY 12421, (607) 326-4234, hrlmseed@localnet.com, is a New York state seed saving and organic agricultural and educational organization.

Garden State Heirloom Seed Society, c/o Joe Cavanaugh, PO Box 15, Delaware, NJ 07833, www.historyyoucaneat.org, is a seed savers organization in New Jersey with a seed exchange, a magazine and a catalog of over 1000 listings. Some members have marvelous tomato collections and they hold a tomato-tasting in September. Annual membership is $20.

Seeds of Diversity Canada, PO Box 36, Station Q, Toronto, ON M4T 2L7, Canada, (905) 623-0353, www.seeds.ca, is a living gene bank seeking to preserve and enhance genetic diversity and sponsoring an annual seed exchange. Annual membership $25; $20 for fixed income.

Seed Production and On-Farm Crop Improvement

Restoring Our Seed (ROS) PO Box 520, Waterville, ME 04903, (207) 872-9093, www.growseed.org, humus1@netvision.net.il, is a participatory extension program for organic seed production and on-farm crop improvement. Conducts workshops, field days and school programs. Funded by Northeast SARE.

Public Seed Initiative (PSI) Michael Glos, NOFA-NY, 9389 W Creek Rd, Berkshire, NY 13736, (607) 657-2860, www.nofany.org, michaelglos@nofany.org, is a collaboration of Cornell University, the USDA, organic farming organizations, regional seed companies and growers to develop a breeding and seed production program for the Northeast and to disseminate improved disease-resistant varieties. Conducts workshops, demonstrations and field days to train growers to become seed producers.

Organic Seed Alliance (OSA) Box 772, Port Townsend, WA 98368, (360) 385-7192, www.seedalliance.org, info@seedalliance.org, offers workshops "Growing Seeds for Organics" and "Fundamentals of Plant Improvement" as well as other educational programs and materials. Conducts research on breeding and distributes seed to those in need through the World Seed Fund.

Saving Our Seed: a program to train farmers and extension agents in the production of organic and heirloom seeds. Funded by Southern SARE. Contact: Ellen Gray, Carolina Farm Stewardship Assn, PO Box 448, Pittsboro, NC 27312 (919) 542-2402. Email is ellen@carolinafarmstewards.org.

Information on Genetic Engineering

ETC Group, (Action Group on Erosion, Technology and Concentration, formerly **RAFI**) 118 E Main St, Carrboro, NC 27510 (919) 960-5223, www.etcgroup.org. International non-governmental organization on the forefront of ferreting out information on what multinationals and governments are up to concerning such GE issues as biopiracy, patenting life forms, and terminator technology.

Union of Concerned Scientists, 2 Brattle Sq, Cambridge, MA 02238, (617) 547-5552, www.ucsusa.org, is an alliance of citizens and scientists who work to research and evaluate the risks and benefits of biotechnology in agriculture and other topics in science and public safety. Their "Foods Allowed on the Market" chart is often cited by other groups.

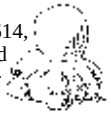
Organic Consumers Association (formerly Campaign for Food Safety) 6101 Cliff Estate Rd, Little Marais, MN 55614, (218) 226-4164, www.organicconsumers.org. Public interest organization whose focus is safeguarding our food. Organic food news with extensive sources of organic products, protest alerts, listings for co-ops and CSAs.

NERAGE (Northeast Resistance Against Genetic Engineering) operates out of the Institute for Social Ecology, 1118 Maple Hill Rd., Plainfield, VT 05667, 802-454-9957, www.nerage.org/phpweblog has VT-based listings of actions, trainings and events.

The Campaign to Label GE Foods, PO Box 55699, Seattle, Wa 98155, (425) 771-4049, www.thecampaign.org. Compendium of labeling activities and legislation accessible by state. Instant letters to media, manufacturers and officials. Click on your state and each senator and representative is listed. Click on the individual you want to contact and the letter is formatted with their name and address. Easy!

Genetic Engineering and Its Dangers, http://online.sfsu.edu/%7Erone/GEessays/gedanger.htm, compiled by Dr. Ron Epstein at San Francisco State University has a wide range of good essays relating to GE. Good place to start your GE education. Includes a book list.

Co-op Voices Unite, PO Box 1002, Blue Hill, ME 04614, (207) 359-2282, www.keepmainefree.org, a co-op-affiliated lobby to initiate and monitor state policies and laws that involve food.



Useful Publications

Growing for Market, PO Box 3747, Lawrence, KS 66046, (800) 307-8949,www.growingformarket.com, published monthly, year's subscription is $30. Where we turn for practical information about organic food and flower production for market, good coverage of CSA and other timely topics.

Small Farmer's Journal, PO Box 1627, Sisters, OR 97759, (541) 549-2064, www.smallfarmersjournal.com, published quarterly, $30 for a year's subscription, 2 years for $55, 3 for $75. Antithesis of superficial gardening magazines, aimed at serious horse farmers but will appeal to anyone seeking iconoclastic political observations and in-depth treatments of rural economics.

The Community Farm, 3480 Potter Rd, Bear Lake, MI 49614, (231) 889-3216, csafarm@jackpine.com. Published quarterly, year's subscription is $20. Articles and resources specifically for CSA farms and of interest to small farmers.

The Avant Gardener, PO Box 489, New York, NY 10028, published monthly, annual subscription is $24. Keep abreast of horticultural trends. Perennial gardeners and landscapers, especially, will like the sourcing of hot new introductions.

Peace Seeds Research Journal, 2385 SE Thompson St, Corvallis, OR 97333. Alan and Kusra Kapuler's remarkable publication features technical articles on plant kinships, also photographs, reviews and commentaries. Latest issue costs $22.

Organizations

MOFGA (Maine Organic Farmers and Gardeners Association), PO Box 170, Unity, ME 04988, (207) 568-4142, www.mofga.org, works to promote sustainable agriculture through legislative and educational initiatives, annual sponsorship of the Common Ground Country Fair, publication of its quarterly newspaper, and maintenance of farm apprenticeship, journeyperson and certification programs. Maintains local chapters.

NOFA (Northeast Organic Farming Association) c/o Julie Rawson and Jack Kittredge, 411 Sheldon Rd, Barre, MA 01005, (978) 355-2853, www.nofa.org. For the rest of the Northeast what MOFGA is for Maine. Maintains state chapters in VT, NH, MA, RI, CT, NY and NJ (also serves PA). Sponsors educational conferences each summer and winter, and publishes a quarterly newspaper.

PASA (Pennsylvania Association for Sustainable Agriculture), PO Box 419, Millheim, PA 16854, (814) 349-9856, www.pasafarming.org.

OEFFA (Ohio Ecological Food & Farm Association), PO Box 82234, Columbus, OH 43202, (614) 421-2022, www.oeffa.org, Ohio's organic organization.

CFSA (Carolina Farm Stewardship Association), PO Box 448, Pittsboro, NC 27312, (919) 542-2402, www.carolinafarmstewards.org, is North and South Carolina's organic organization.

The Bio-Dynamic Farming & Gardening Association, PO Box 29135, San Francisco, CA 94129, (888) 516-7797, www.biodynamics.com, sponsors annual conference on topics of interest to biodynamic growers, maintains a nationwide CSA directory, publishes a bimonthly journal and the annual *Stella Natura Calendar* (see #**9850** in our books section).

The Robyn Van En Center for CSA in the Northeast c/o Center for Sustainable Living, Wilson College, 1015 Philadelphia Ave, Chambersburg, PA 17201, (717) 261-4141 or fax (717) 264-1578, has information, materials and a good website on Community Supported Agriculture. See www.csacenter.org.

Northeast Sustainable Agriculture Working Group, see wwwsmallfarm.org.

Victory Gardens Project, RR 1 Box 6025, Athens, ME 04912, is an organization for political and social change using organic food production and distribution as the primary tool.

Annual membership rates for MOFGA and NOFA. You can join when you order; list names and addresses on a separate sheet, indicate new membership or renewal, add total on order form.

state	individual	family	supporting	other	
VT	30	40	100	25	
NH	25	35	100	18	student
MA	30	40	100	20	low income
RI	25	35	50	20	student/senior
CT	35	35	100	25	student
NY	30	40	100	15	student/senior
NJ	35	50	100	15	low income
ME	25	35	60	15	low income/sen

New Seed Varieties for 2004

484 Beer Friend: To be enjoyed with **#3317.**
489 Sayamusume: Say aah to these soybeans.
740 Northfield: Make a place for peas of lace.
946 Pride of Wisconsin: Somewhat football-shaped. Is this from Green Bay?
1094 Sugar Nut: Your kids will be nuts about Sugar Nut!
1409 Raven: Don't be craven. Try the Raven!
1503 Papaya Pear: Tropical fruit in just six weeks?
1908 Tennessee Dancing Gourd: A new spin for your gourds.
1957 Autumn Wings: New fins for your gourds.
1972 Baby Bottle: Too small to satiate **#3317**.
2474 Clear Dawn: Let the sun shine on these open-pollinated storage onions.
2767 Les Orielles du Diable: Watch what you say about this lettuce!
2861 Jericho: In the heat it can't be beat!
3145 Magenta: Day-glo leaves for your salad mix.
3273 Fun Jen: Make kimchi and have fun.
3317 Falstaff: Let's drink to our first red brussels sprout!
3345 Early Snowball A: Finally, an O-P cauliflower!
3460 Liberty: We've got the Liberty, who's got the justice?
3573 Graffiti: The handwriting's on the head!
3750 Tasty Golden Greek: Would it go well with #**5087**?
3832 Red Knight: A good move for your pepper program.
4120 Fargo Yellow Pear: How far will you go for a Fargo?
4286 Sweet Baby Girl: At last a suitable companion to Sungold!
4711 Arnica chamissonis: Diverse uses for bumps and bruises.
4713 Ashwagandha: Increase your vitality!
5086 Red Heart: Good companion for #**2833** Sweet Valentine.
5087 Resina: You'll stick with this medicinal.
5089 Zeolight: No turning off this calendula!
5097 Candytuft Mix: A sweet little annual.
5157 Coral Queen: Long may she reign.
5163 Victoria Pigeon: Is this Victoria's secret?
5232 Harlequin: A bloomin' clown!
5379 Starlight Scentsation: A lot of scent for eighty cents!
5401 Fantasia: Walt Disney would have loved this one!
5402 Florenza: You don't need a florist for Florenza.
5458 Mixed Streamers: Pennants of color!
5820 Turbo Blue: Supercharge your flower bed!
5832 Turbo Purple: Accelerate your dried arrangements!
5960 Purple Majesty: Henry IV when Prince Hal hangs with #**3317.**
5962 Terra: Not lewd, but nude food!
5995 Utrecht Blue: Get lost in a sea of wheat.
6180 Blackberry Lily: No brambles on these blackberrys.
6333 Beneficials Mix: Abuzz with beauty!
In addition, we welcome the return of eleven favorites including Limelight, Fleet, Japanese Hulless, Gilfeather, Rossimo, Kinemontpas, Lingue di Canarino, Waltham 29, Arcadia, German Johnson and Sweet Woodruff.

Last Chance in 2004

3760 Pretty in Purple: May be replaced by Filius Blue next year.
3828 Banana Supreme: Dropped by the trade.
3840 Vidi: Dropped by the trade.
6262 Potsdam Primrose: Dropped by the trade.

A few other items are in **Discounted Specials**. See page **88**. Some of these are in short supply temporarily because of crop failures. Others we plan to drop in 2005 because we have found a superior replacement or because sales have been too low to justify continuing them.

Dropped Varieties for 2004

796 Amplissimo: Crop failure.
2079 Scarlet Keeper: Lost our grower.
2327 Skirret: Crop failure.
2426 Siegfried: Dropped by the trade.
2867 Plato II: Dropped by the trade.
3027 Sylvetta: Testing various strains to find the best one.
3042 Charlotte: Dropped by the trade.
3440 Benihana: Replaced by #**3460** Liberty.
3506 Columbia: Dropped by the trade.
3741 Amish Pimiento: Season too short. Crop failure.
3822 Greygo Baby: Lost our grower.
3839 Turino: Lost our grower.
3857 Chilipeno: Lost our grower.
3859 Sugar Chile: Lost our grower.
4097 Ruby Gold: Crop failure.
5002 Blue Horizon: Dropped by the trade.
5075 Arrancio Marrone: Replaced by #**5086** Red Heart.
5246 Ornament Gem: Crop failure.
5332 Fluffy Ruffles: Crop failure.
5437 Yellow Thriller: Dropped by the trade.

A number of other items are in short supply this year. Check your catalog and order early.

Our Own Seed Crops

We devote many hundreds of hours annually to research. In Nikos Kavanya's extensive variety trials program, skilled staffers and customers evaluate hundreds of cultivars at multiple sites. Each summer in our trials we are continuing to identify outstanding regional specialties and heirloom varieties rarely available from commercial channels, selecting the best for seed multiplication, and making plans to introduce them in future catalogs. We will continue to do our part to ensure that the best heirlooms are reintroduced into commerce.

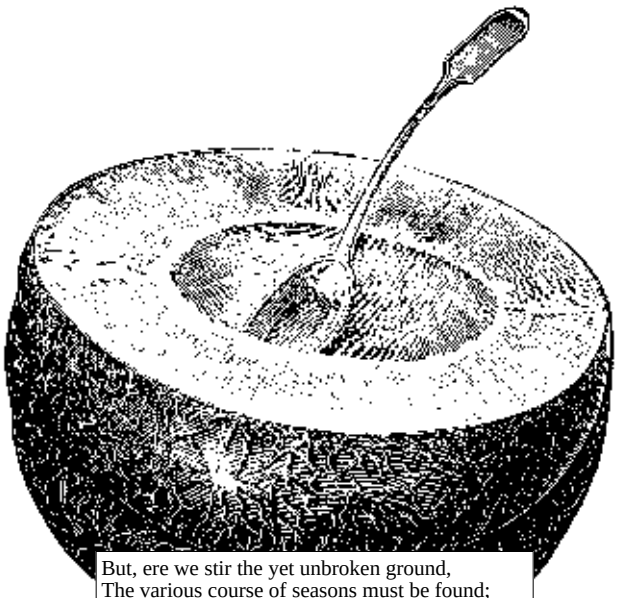
Over the past dozen years we have increased our proportion of small-farm-grown seed from fewer than 1% of our selections to 18%, close to our goal of 20% by 2007.

Not Our Own Seed Crops

Like nearly all other retail seed companies, we mostly purchase quality seed grown in optimum climatic conditions by expert seedpeople in Idaho, Washington, Oregon, California and Colorado, or imported from Japan, France, Holland, Denmark, Germany, Switzerland, Italy or Israel. In particular, many hybrids come from a few dozen large wholesalers with sophisticated breeding programs and unrivalled expertise in their specialties. Whatever their geographic origin, all of our offerings have been tested in our trials program for high performance in our cold New England climate.

"Of all the businesses in this universe none is so religiously guarded and clothed with so much mysterious secrecy as the seed business. Every layman is of the impression that the larger seed firms grow their own seeds…not a single firm in the world sells seeds which are of exclusively their own growing. Of all the seed firms in America not a handful grows 25 per cent of what they sell"—*Vegetable Lore* by Maurice Fuld, 1917

"Thank you for staying such an amazing seed company and putting out such a good catalog. No matter how glad I still am that the season is over, reading your catalog never fails to make me excited to farm again. It is so nice to know that there is one company that actually cares about the things that are important." —Caty Crabb, Leicester, NC



But, ere we stir the yet unbroken ground,
The various course of seasons must be found;
The weather, and the setting of the winds,
The culture suiting to the several kinds
Of seeds and plants, and what will thrive and rise,
And what the genius of the soil denies.
Virgil *Georgics*

Intellectual Property Rights?

"If the first plant explorers claimed their discoveries as property, our world would be very different than it is now. To find a rose, and hence own all the roses; to genetically alter a soybean and hence own the rights to the products that arise from it; to own the products arising from particular genes because you're the first to sequence their DNA; these are all aspects of ownership called intellectual property rights."

"Under the guise that new combinations of genes put the organisms that hold them in the category of inventions, we have allowed patenting of living organisms. Original inventions can be patented and are subject to specific ownership laws. But living organisms are not inventions. The living system of which all life is a part existed before humans. Living organisms have their own domain. They have the rights of life, freedom and the pursuit of enlightenment. We work to abolish slavery and then bestow it on all creatures except us."

"The laws must be changed."

–By Alan M. Kapuler, PhD, in *Genetic Engineering, Biotechnology and GMO's: A Few Thoughts about an Emerging Civil Rights Issue Involving Our Food System*, in November/December 2001 issue of *Biodynamics*, reprinted with permission of the author.

Fedco Does Not Knowingly Carry Genetically Engineered Seeds

At our 1996 Annual Meeting we voted unanimously not to knowingly offer for sale any transgenic variety because the new gene technologies pose unacceptable risks to the environment. In 1999 we affirmed and clarified that position and will follow the guidelines of the Organic Materials Review Institute (OMRI) which prohibits the use of genetically engineered organisms in organic crop production. OMRI uses the National Organic Standards Board (NOSB) definition of genetic engineering. Along with more than 100 other seed companies, we have signed The Safe Seed Pledge.

Please note the word *"knowingly."* Because of the possibility of contamination, over which we have no control, our pledge necessarily stops short of being an absolute guarantee. Although we will not sell any variety represented to us as transgenic, we will not be held legally responsible if any of our seed tests positive for genetically modified organisms. We have been advised not to sign any blanket statements such as "GMO free" that require us to state with certainty that our products are pure. Please do not submit such statements with your order. We apologize for having to split legal hairs, but we all share the reality of genetic drift.

THE SAFE SEED PLEDGE

Agriculture and seeds provide the basis on which our lives depend. We must protect this foundation as a safe and genetically stable source for future generations. For the benefit of all farmers, gardeners and consumers who want an alternative, we pledge that we do not knowingly buy or sell genetically engineered seeds or plants. The mechanical transfer of genetic material outside of natural reproductive methods and between genera, families or kingdoms, poses great biological risks as well as economic, political and cultural threats. We feel that genetically engineered varieties have been insufficiently tested prior to public release. More research and testing are necessary to further assess the potential risks of genetically engineered seeds. Further, we wish to support agricultural progress that leads to healthier soils, genetically diverse agricultural ecosystems and ultimately people and communities.

Certified Organic Seed

Fedco Seeds is a certified organic processor under the National Organic Program. Our facilities were inspected by MOFGA in September. Each variety labeled as organic in our catalog has been certified by a USDA-approved agency. By maintaining an audit trail and careful procedures we ensure that our seed offered as certified organic will not be contaminated.

If you buy organic seed because you are a certified grower, save your invoice from us and your packet labels so you can keep track of lot numbers to maintain your own audit trail.

Although the new rule requires organic growers to use certified-organic seed whenever it is commercially available, in actual practice it still leaves a wide range of choices. Many ambiguities remain in the definition of "commercially available" and in what constitutes a good faith effort to locate organic seed. Consult your regional certifier for their specific definitions.

These vary from state to state, and organic growers have been using different compliance strategies. Some growers work from a large number of different catalogs and purchase 100% organic seed no matter what the cost. Others stick to a few preferred suppliers, insist on certain favored varieties, and/or take price and other factors into consideration.

As longtime supporters of the organic movement, we are committed to helping make the new rule work for you. To give organic growers more options, we doubled our organic selections in 2003 and have increased them another 25% this year.

However, we do not purchase all organic varieties that are available on the market. In particular, we are unwilling to pay exorbitant markups that would more than triple the cost to you. We can justify differentials of that magnitude only if the variety is new or has been substantially improved. The Rule should not be used as another way to gouge farmers into paying outrageous prices without a guarantee of commensurate returns. We believe the benefits of organic food should be affordable to people of all income levels.

So far few of the major seed wholesalers and almost no producers of hybrid seed have expressed interest in serving the organic market. We see this void as an opportunity to continue our development of small-farm based open-pollinated seed production, and the new rule as a tool to help us take back control of the seed from the multinational giants. In coming years, we look forward to helping close the gaps in the availability of high quality organically produced seed and helping close the price differential as well.

Sustainably Grown Seed

We can legally offer seed in our catalog as "certified organic" only if it comes from certified farms. This is true even if the seed is from farms grossing under $5,000 which would otherwise be exempt from certification.

We have been painstakingly building our cadre of small seed growers for the past twelve years. We feel such a network is at the essence of democracy and self-reliance. Most of our growers use farm and seed revenues to supplement income from other jobs. Few gross over $5,000 farming.

Although most practice sustainable farming methods conscientiously, many have eschewed certification for a variety of reasons, ideological, economic and otherwise. In this catalog we are using the ecological label **ECO** after the variety name to describe seeds grown without pesticides, herbicides or chemical fertilizers in gardens and on farms which maintain an active soil-building program. In most cases this seed is as sustainably grown as the certified organic seed, so I hope you will continue to support these growers with your purchases.

The seed varieties we list as organic are the only organics we have have available this year. Please do not call about the availability of any others or ask us to do source work. See the clip-out form below to send to your certifier as proof that you looked for organic seed at Fedco. Please do not request additional documentation from us.

FEDCO SEEDS

This certifies that I have searched the Fedco Seed catalog for certified-organic seed.

Farm_____

Name_____

Signature_____

index

"The organic seed section was confusing. I thought favorite varieties had been discontinued only to find they were in the organic section."

* * * * *

"I love the separate organic seeds section. Makes selection quick and easy for certified growers. Thank you and keep expanding."

Organics in the Catalog

Many customers liked how we highlighted the organic varieties in the front of the catalog last year but an equal number found that it made ordering confusing and painful.

Note that our catalog organization has changed again. We hope that we have found the best of both possible worlds. Please let us know how you feel about the changes.

We have again listed all available organic selections with sizes and prices in their own section beginning on the next page. All variety descriptions (including those for organic selections) have moved to the main body of the catalog beginning on page 14. There you will also find prices and sizes for all the varieties, including the organic ones. In some instances we offer both commercial and certified organic seed of the same variety and you will be able to compare prices without flipping pages.

If you want nothing but organic use the front. If you want descriptions or price comparisons, use the main body.

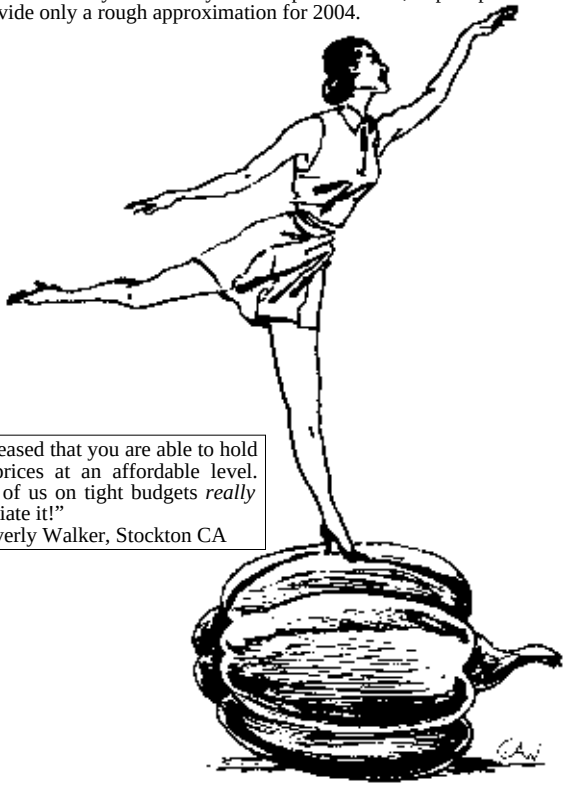
OG after cultivar name = entire lot is certified-organic seed. The certifying agency is listed in the copy. Abbreviations are:

AGRIOR: an Israeli organic inspection agency
BSO: Bay State Organic Certifiers (Massachusetts)
CCOF: California Certified Organic Farmers
IA: Iowa Department of Land Stewardship
ID: Idaho Department of Agriculture
MOFGA: Maine Organic Farmers and Gardeners Association
MT: Montana Department of Agriculture
NOFA (followed by state chapter): Northeast Organic Farming Association
OCIA: Organic Crop Improvement Association
OT: Oregon Tilth
PCO: Pennsylvania Certified Organic
WA: Washington State Department of Agriculture

Supplier Codes - See page 14 for more information.
① Small seed farmers including Fedco staff.
② Family-owned companies or cooperatives, domestic and foreign.
③ Domestic and foreign corporations not part of a larger conglomerate.
④ Multinationals not to our knowledge engaged in genetic engineering.
⑤ Multinationals who are engaged in genetic engineering.

Prices - Sizes and prices are at the end of each variety description. For larger quantities than listed see instructions for bulk orders on p. 3.

Seed Counts - Seeds per size **A** packet for vegetables are approximate. They are intended as guides not guarantees. Information under specific varieties is based on actual counts from recent packets. Seed size and count often vary from one year's crop to the next; expect past counts to provide only a rough approximation for 2004.



"So pleased that you are able to hold your prices at an affordable level. Those of us on tight budgets *really* appreciate it!"
—Beverly Walker, Stockton CA

CERTIFIED-ORGANIC VARIETIES

All open-pollinated unless otherwise noted. See main body of catalog, beginning on p. 14, for descriptions, for sustainably and commercially grown seed, and for section headers containing cultural information and sundry facts. See also 6432 on p. 88. For organic cover crops, see pp. 100-102.

BEANS *Phaseolus vulgaris*

205PO Provider OG (50 days) CCOF ③ **A**=2oz, $1.50 (~180 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00. *Not available in larger sizes.*

277DO Dragon Langerie OG (57 days) *Seed in short supply; order early.* ID ① **A**=2oz, $1.50 (~120 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00. *Not available in larger sizes.*

307KO Black Kabouli Garbanzo OG (115 days) *Cicer arietinum* OCIA ① **A**=2oz, $1.00 (~210 seeds), **B**=8oz, $3.50, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $35.00

Dry Beans

337MO Maine Sunset OG (85 days) MOFGA ① **A**=2oz, $1.20 (~180 seeds), **B**=8oz, $4.50, **C**=1lb, $7.00, **D**=5lb, $22.00, **E**=10lb, $40.00

339DO Drabo OG (86 days) MOFGA ① **A**=2oz, $1.10 (~180 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $35.00

355JO Aunt Jean's Pole OG (90 days) MOFGA ① **A**=1/2oz, 90¢, **B**=2oz, $2.50, **C**=8oz, $6.00, **D**=1lb, $9.00. *Not available in larger sizes.*

358MO Monos Negros OG (90 days) MOFGA ① **A**=2oz, $1.20 (~194 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00. *Not available in larger sizes.*

366PO Agate Pinto OG (92 days) MOFGA ① **A**=2oz, $1.20 (~130 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $40.00

371CO True Red Cranberry Pole OG (95 days) MOFGA ① **A**=2oz, $1.50, **B**=8oz, $5.00, **C**=1lb, $9.00, **D**=5lb, $35.00. *Not available in larger sizes.*

SOYBEANS *Glycine max*

489FO Shirofumi OG (90 days) ID ① A=1/2oz, $1.00 (~42 seeds), B=2oz, $3.00, C=8oz, $9.00, D=1lb, $16.00 (1 seeds/g)

SWEET CORN *Zea mays*

516AO Ashworth OG (72 days) OCIA ① **A**=2oz, $1.40 (~210 seeds), **B**=8oz, $5.00, **C**=1lb, $8.50, **D**=5lb, $36.00, **E**=10lb, $70.00

636LO Luther Hill OG (82 days) OCIA ① **A**=2oz, $1.80 (~255 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00

ORNAMENTAL & DRY FIELD CORN

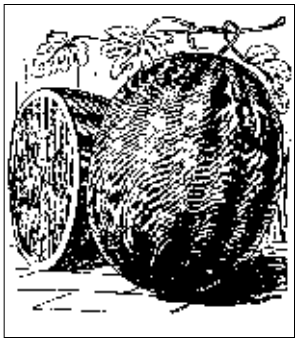
680PO Painted Mountain OG (85 days) MT ① **A**=2oz, $2.00 (~175 seeds), **B**=8oz, $10.00, **C**=1lb, $19.00, **D**=5lb, $85.00, **E**=10lb, $160.00

682CO Abenaki Calais Flint OG (88 days) NOFA VT ① **A**=2oz, $1.30 (~225 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00, **D**=5lb, $34.00, **E**=10lb, $65.00

SHELL PEAS *Pisum sativum*

772MO Miragreen OG (68 days) CCOF ① **A**=2oz, $1.20, **B**=8oz, $4.00, **C**=1lb, $7.50, **D**=5lb, $30.00, **E**=10lb, $50.00, **K**=25lb, $120.00

788FO Mayfair Pea OG (72 days) OCIA ① **A**=2oz, $1.20 (~225 seeds), **B**=8oz, $4.00, **C**=1lb, $7.50, **D**=5lb, $32.00, **E**=10lb, $55.00



MUSKMELON *Cucumis melo*

946WO Pride of Wisconsin OG (90 days) ID ① **NEW!** **A**=1/16oz, $1.60, **B**=1/4oz, $4.50, **C**=1/2oz, $7.50

WATERMELON *Citrullus lanatus*

986VO Verona OG (86 days) ID ① **A**=1/16oz, $1.60, **B**=1/4oz, $4.50, **C**=1/2oz, $7.50

992MO Moon and Stars OG (100 days) MOFGA & CCOF ①③ **A**=1/16oz, $1.50 (~20 seeds), **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

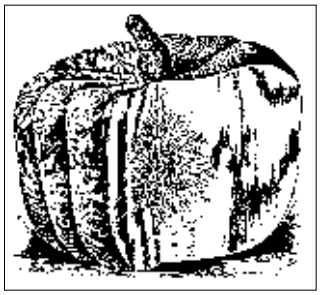
SLICING CUCUMBERS *Cucumis sativus*

1313MO Marketmore 76 OG (63 days) CCOF ③ **A**=1/16oz, 70¢ (~85 seeds), **B**=1/4oz, $1.20, **C**=1/2oz, $2.20, **D**=1oz, $3.50, **E**=4oz, $7.00, **K**=1lb, $24.00

1358SO Suhyo Long OG (61 days) OT ① **A**=1g, 90¢, **B**=4g, $2.50, **C**=12g, $6.00, **D**=48g, $12.00. *Not available in larger sizes.*

SUMMER SQUASH *Cucurbita pepo*

1539CO Early Summer Yellow Crookneck OG (58 days) CCOF ③ **A**=1/8oz, $1.00, **B**=1/4oz, $1.80, **C**=1/2oz, $2.60, **D**=1oz, $4.00, **E**=4oz, $7.50, **K**=1lb, $20.00



WINTER SQUASH *Cucurbita* spp.

1629BO Burgess Buttercup OG (95 days) *C. maxima* CCOF ③ **A**=1/4oz, $1.00 (~31 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.50, **D**=4oz, $9.00, **E**=1lb, $30.00. *Not available in size K, order size E.*

1640PO Ponca Baby Butternut OG (90 days) *C. moschata* WA ① **A**=1/8oz, $1.00, **B**=1/4oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $70.00

1645WO Waltham Butternut OG (105 days) *C. mos.* CCOF ③ **A**=1/4oz, $1.00 (~72 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.50, **D**=4oz, $9.00, **E**=1lb, $30.00. *Not available in size K, order size E.*

1647CO Candy Roaster OG *C. max.* (112 days) MOFGA ① **A**=1/8oz, $1.60 (~18 seeds), **B**=1/4oz, $3.00, **C**=1/2oz, $6.00. *Not available in larger sizes.*

1648ZO Zeppelin Delicata OG (100 days) *C. pepo* OT ① **A**=1/8oz, $1.60 (~22 seeds), **B**=1/4oz, $3.00, **C**=1/2oz, $5.00, **D**=1oz, $9.00. *Not available in larger sizes.*

1652HO Green Hokkaido OG (98 days) *C. max.* OT ① **A**=1/8oz, 90¢ (~15 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $20.00, **K**=1lb, $65.00

PUMPKINS

1720NO New England Pie OG (102 days) *C. pepo* CCOF ③ **A**=1/4oz, $1.00 (~70 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.20, **D**=4oz, $8.00, **E**=1lb, $24.00. *Not available in size K, order size E.*

1723LO Long Pie OG (102 days) *C. p.* MOFGA ① **A**=1/8oz, 90¢ (~13 seeds), **B**=1/4oz, $1.70, **C**=1/2oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $20.00, **K**=1lb, $75.00

1752HO Howden OG (115 days) *C. p.* CCOF ③ **A**=1/8oz, $1.00 (~26 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $14.00, **K**=1lb, $50.00

CARROTS *Daucus carota*

2076DO Danvers 126 OG (75 days) CCOF ③ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $10.00, **E**=1lb, $25.00, **K**=5lb, $105.00

BEETS *Beta vulgaris*

2109WO Early Wonder Tall Top OG (48 days) CCOF ③ **A**=1/8oz, 80¢ (~270 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $16.00. *No size K, order size E.*

2121RO Red Ace OG (50 days) PCO ⑤ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $11.00, **E**=1lb, $38.00, **K**=5lb, $180.00

2137CO Chioggia OG (55 days) AGRIOR ④ **A**=1/16oz, $1.00 (~70 seeds), **B**=1/4oz, $3.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**=4oz, $24.00. *No size K, order size E.*

2183DO Detroit Dark Red Medium Top OG (60 days) CCOF ③ **A**=1/8oz, 80¢, **B**=1/2oz, $1.50, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $16.00

2187BO Bull's Blood OG (60 days) CCOF ③ **A**=1/8oz, $1.20 (~180 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.50, **D**=4oz, $15.00, **E**=1lb, $36.00

RADISHES *Raphanus sativus*

2215CO Cherry Belle OG (25 days) CCOF ③ **A**=1/8oz, 80¢ (~700 seeds), **B**=1/2oz, $1.60, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $12.00. *No size K, order size E.*

2265RO Rat-tail OG (50 days) MOFGA ① **A**=1/8oz, $1.20, **B**=1/2oz, $4.00, **C**=1oz, $6.00, **D**=4oz, $22.00. *Not available in larger sizes, order size D.*

ROOTS, SCALLIONS, SPINACH

2379WO Purple Top White Globe Turnip OG (50 days) *Brassica rapa* CCOF ③ **A**=1/8oz, 70¢ (~1,750 seeds), **B**=1/2oz, $1.20, **C**=1oz, $2.00, **D**=4oz, $3.50, **E**=1lb, $7.00, **K**=5lb, $30.00

2392GO Gilfeather® Turnip OG (85 days) *B. napus* Two lots, BSO, NOFA VT ① **BACK! A**=1/16oz, $1.00 (~500 seeds), **B**=1/4oz, $3.00, **C**=1oz, $9.00. *Not available in larger sizes.*

2440EO Evergreen Hardy White Scallion OG (65 days) *Allium fistulosum* CCOF ③ **A**=1/16oz, $1.10 (~575 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $12.00, **K**=1lb, $42.00

2541LO Long Standing Bloomsdale Spinach OG (42 days) *Spinacea oleracea* CCOF ③ **A**=1/4oz, 70¢, **B**=1/2oz, $1.30, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $11.00, **K**=5lb, $48.00

2556WO Giant Winter Spinach OG (45 days) *S. o.* WA ① **NEW! A**=1/4oz, $1.20, **B**=1/2oz, $2.20, **C**=1oz, $4.00, **D**=4oz, $10.00, **E**=1lb, $30.00

LETTUCE *Lactuca sativa*

Looseleaf and Oakleaf

2712BO Black Seeded Simpson OG (42 days) CCOF ③ **A**=2g, 70¢, **B**=4g, $1.20, **C**=14g, $2.00, **D**=28g, $3.50, **E**=112g, $8.00, **K**=448g, $21.00

2723SO Salad Bowl OG (46 days) CCOF ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $10.00, **K**=448g, $28.00

2729RO Red Salad Bowl OG (46 days) CCOF ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $9.00, **K**=448g, $25.00

2731CO Cracoviensis OG (47 days) OT ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $11.00, **K**=112g, $40.00

2738AO Antares OG (48 days) OT ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $55.00

2740DO Green Deer Tongue OG (48 days) MT ① **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.80, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2764BO Blushed Butter Oaks OG (49 days) OT ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2766GO Blushed Icy Oak Gene Pool OG (49 days) OT ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2767DO Les Orielles du Diable OG (Devil's Ears) (50 days) ID ① **NEW! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $35.00

2768LO Lingue di Canarino OG (Canary Tongue) (50 days) CCOF ① **BACK! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $3.00, **D**=14g, $5.00. *Not available in larger sizes.*

2771RO Royal Oakleaf OG (50 days) CCOF ③ **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $2.80, **D**=14g, $7.00, **E**=28g, $11.00, **K**=112g, $32.00

2773HO Hyper Red Rumple Waved OG (50 days) OT ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $56.00

2788MO Merlot OG (32 days baby, 60 mature) OT ① **A**=1g, $1.00, **B**=2g, $2.00, **C**=4g, $3.80, **D**=14g, $13.00, **E**=28g, $25.00, **K**=112g, $90.00

Bibb and Butterhead

2812BO Buttercrunch OG (50 days) CCOF ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $2.20, **D**=28g, $3.50, **E**=112g, $9.00, **K**=448g, $22.00

2828PO Pirat OG (55 days) OT ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $35.00

2831SO Speckled OG (55 days) OT ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $60.00

Romaine and Cos

2847KO Kinemontpas OG (60 days) CCOF ① **BACK! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00

2854BO Blushed Butter Cos OG (49 days) OT ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $60.00

2858FO Forellenschluss OG (56 days) CCOF ③ **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $5.00, **E**=28g, $9.00, **K**=112g, $25.00

2861JO Jericho OG (60 days) AGRIOR ④ **NEW! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $40.00

2872BO Brune d'Hiver OG (65 days) OT ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $40.00

2883CO Crisp Mint OG (70 days) OT ② **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

Mixes

2981LO Lettuce Mix OG ③ **A**=1g, $1.00, **B**=2g, $1.80, **C**=4g, $3.20, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2993GO Greens Mix OG ③ **A**=1g, $1.00, **B**=2g, $1.80, **C**=4g, $3.20, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

GREENS

3008HO Hopi Red Dye Amaranth OG (46 days) *A. cruentus* MOFGA ① **A**=1/16oz, $1.00, **B**=1/8oz, $2.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00. *Not available in larger sizes.*

3023AO Arugula OG (47 days) *Eruca sativa* CCOF ③ **A**=1/16oz, $1.00 (~820 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.00, **D**=1oz, $4.00, **E**=4oz, $7.00, **K**=1lb, $24.00

Chard *Beta vulgaris* (cicla group)

3032FO Fordhook Giant OG (50 days) CCOF ③ **A**=1/16oz, 80¢, **B**=1/8oz, $1.50, **C**=1/2oz, $2.00, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $16.00

3041RO Ruby Red Rhubarb OG (59 days) CCOF ③ **A**=1/16oz, 80¢ (~72 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.50, **E**=4oz, $10.00, **K**=1lb, $30.00

3045CO Chervil OG (60 days) *Anthriscus cerefolium* BSO ① **A**=1/16oz, 80¢ (~770 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $3.50, **D**=1 oz, $6.00, **E**=4oz, $11.00, **K**=1lb, $40.00

3047DO Dandy Red Dandelion OG (30-35 days baby, 55 days full size) *Chicorium intybus* CCOF ② **A**=0.5g, $1.00 (~340 seeds), **B**=1g, $1.80, **C**=2g, $3.00, **D**=8g, $5.00, **E**=16g, $8.00, **K**=32g, $12.00

3056WO Wrinkled Crinkled Crumpled Cress OG (30 days) *Lepidum sativum* OT ① **A**=1/16oz, 80¢, **B**=1/8oz, $1.50, **C**=1/2oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $15.00, **K**=1lb, $50.00

Orach *Atriplex hortensis*

3145MO Magenta OG (38 days) OT ① **NEW! A**=1/16oz, $1.20, **B**=1/8oz, $2.20, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

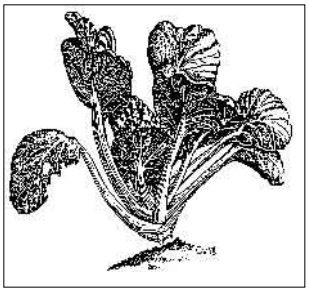
3148RO Red OG (38 days) OT ① **A**=1/16oz, $1.10 (~250 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

3150AO Aurora Mix OG (38 days) OT ① **A**=1/16oz, $1.10 (~200 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

3176PO Plain Leaf Parsley OG (80 days) CCOF ③ **A**=1/16oz, 70¢, **B**=1/8oz, $1.20, **C**=1/2oz, $2.00, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $15.00

3182GO Golden Purslane OG (50 days) *Portulaca oleracea* var. *sativa* OT ① **A**=0.5g, $1.30 (~1,200 seeds), **B**=1g, $2.20, **C**=2g, $4.00, **D**=8g, $5.50, **E**=16g, $9.00, **K**=32g, $15.00 (70,000 seeds/oz)

ASIAN GREENS *Brassica* spp.



3230MO Mizspoona Salad Selects GP OG (40 days) OT ① **A**=1/16oz, $1.10, **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00. *Not available in larger sizes.*

3236RO Red Giant Mustard OG (45 days) *B. juncea* (integlifolia group) CCOF ③ **A**=1/16oz, $1.10 (~880 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $5.00, **E**=4oz, $12.00, **K**=1lb, $35.00

3245TO Tatsoi OG (45 days) *B. rapa* (narinosa group) Open-pollinated. CCOF ③ **A**=1/16oz, $1.20 (~850 seeds), **B**=1/8oz, $2.20, **C**=1/2oz, $4.00, **D**=1oz, $6.00, **E**=4oz, $15.00

3270PO Prize Choy Pac Choi OG (50 days) *B. r.* (chinensis group) OT ① **A**=1/16oz, $1.10 (~760 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $30.00, **K**=1lb, $105.00

BROCCOLI *Brassica oleracea* (botrytis group)

3310TO Thompson OG (92 days) CCOF ① **A**=2g, $1.00 (~400 seeds), **B**=4g, $1.80, **C**=14g, $3.50, **D**=28g, $6.50, **E**=112g, $25.00, **K**=448g, $75.00

KALE *B. napus* (pabularia group)

3383RO Red Russian OG (60 days) CCOF ③ **A**=2g, 80¢ (~800 seeds), **B**=4g, $1.50, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $14.00, **K**=448g, $50.00

3385WO White Russian OG (60 days) OT ① **A**=2g, $1.30 (~490 seeds), **B**=4g, $2.40, **C**=14g, $7.00, **D**=28g, $13.00, **E**=112g, $45.00, **K**=448g, $160.00

3456PO Purple Peacock OG (92 days) OT ① **A**=0.5g, $1.00, **B**=1g, $1.80, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $24.00

"Your catalog is the best! It is the only one we save and reread just for the pleasure of it."
—Serafina Bathrick, Avoca, WI

CELERY & CELERIAC *Apium graveolens*

3630RO Redventure OG (84 days) F-1 hybrid. OT ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=4g, $5.00, **E**=28g, $18.00

3632PO Par-Cel Cutting Celery OG (72 days) BSO ① **A**=0.2g, 90¢ (~400 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=4g, $9.00. *Not available in larger sizes.*

SWEET PEPPERS *Capsicum annuum*

3715BO Boldog Hungarian Spice Sweet Paprika OG (71 days) ID ① **A**=0.5g, $1.10, **B**=1g, $1.80, **C**=2g, $3.20, **D**=4g, $5.50

3735CO Chocolate OG (80 days) MOFGA ① **A**=0.2g, $1.50 (~30 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $7.00, **E**=4g, $13.00, **K**=14g, $45.00

HOT PEPPERS

3751PO Hot Portugal OG (64 days) MOFGA ① **A**=0.2g, $1.00 (~32 seeds), **B**=0.4g, $2.00, **C**=1g, $3.00, **D**=2g, $5.00

3753CO Czech Black OG (65 days) MOFGA ① **A**=0.2g, $1.50 (~30 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $7.50, **E**=4g, $14.00, **K**=14g, $48.00

3773MO Matchbox OG (75 days) MOFGA ① **A**=0.2g, $1.50 (~66 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00

3781FO Fish OG (80 days) ID ① **A**=0.2g, $1.20, **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $7.50, **E**=4g, $12.00, **K**=14g, $36.00

3783TO Thai Hot OG (82 days) MOFGA ① **A**=0.2g, $1.50 (~66 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $50.00

TOMATOES *Lycopersicon esculentum*

4018GO Glacier OG (56 days) MOFGA ① **A**=0.2g, $1.00 (~65 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4038CO Cosmonaut Volkov OG (65 days) Ind. MOFGA ① **A**=0.2g, $1.00 (~65 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $20.00

4048PO Pruden's Purple OG (72 days) Ind. MOFGA ① **A**=0.5g, $1.10, **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00

4059CO Cherokee Purple OG (73 days) Ind. MOFGA ③ **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4061KO Black Krim OG (80 days) MOFGA ① **A**=0.5g, $1.10, **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00

4067RO Rose de Berne OG (80 days) Ind. MOFGA ① **A**=0.2g, $1.00 (~60 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4069JO German Johnson OG (80 days) Ind. MOFGA ① **BACK! A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4075BO Brandywine OG (82 days) Ind. MOFGA ① **A**=0.5g, $1.10 (~190 seeds), **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00

4076YO Yellow Brandywine OG (82 days) Ind. MOFGA ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00

4080AO Aunt Ruby's German Green OG (85 days) Ind. MOFGA ① **A**=0.2g, $1.00 (~46 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4081TO Mark Twain OG (85 days) Ind. MOFGA ① **A**=0.2g, $1.00 (~110 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4084HO Schimmeig Striped Hollow OG (85 days) Ind. MOFGA ① **A**=0.2g, $1.00 (~59 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4091LO Lillian's Yellow Heirloom OG (88 days) Ind. MOFGA ① **A**=0.2g, $1.40, **B**=0.4g, $2.40, **C**=1g, $4.00, **D**=2g, $7.00, **E**=10g, $34.00

4093GO Goldie OG (90 days) Ind. MOFGA ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $4.00, **D**=2g, $7.00. *Not available in larger sizes.*

Paste Tomatoes

4125HO Heinz 2653 OG (68 days) MOFGA ① **A**=0.2g, $1.00 (~55 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4131GO Grandma Mary's OG (68 days) MOFGA ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4135LO Bellstar OG (74 days) MOFGA ① **A**=0.2g, $1.00 (~95 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $20.00

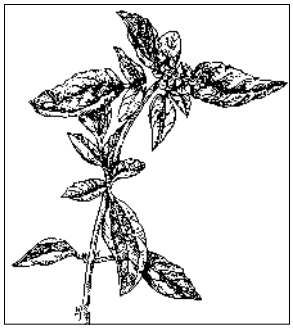
4137NO Orange Banana OG (85 days) Ind. MOFGA ① **A**=0.5g, $1.20 (~200 seeds), **B**=1g, $2.00, **C**=2g, $4.00, **D**=4g, $7.00, **E**=28g, $42.00

4140AO Amish Paste OG (85 days) Ind. NOFA VT, CCOF ①③ **A**=0.2g, $1.00 (~70 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4141HO Hog Heart OG (86 days) Ind. MOFGA ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $19.00

4146BO Blue Beech OG (90 days) Ind. MOFGA ① **A**=0.2g, $1.20, **B**=0.4g, $2.20, **C**=1g, $3.50, **D**=2g, $6.00, **E**=10g, $28.00

CULINARY HERBS



4415WO Sweet Basil OG *Ocimum basilicum. Not tested for fusarium.* CCOF ③ **A**=4g, $1.50 (~2,300 seeds), **B**=28g, $4.00, **C**=112g, $10.00, **D**=336g, $27.00 (575 seeds/g)

4448LO Lemon Basil OG *O.b. citriodorum. Not tested for fusarium.* CCOF ③ **A**=0.5g, 80¢ (~375 seeds), **B**=4g, $2.00, **C**=16g, $5.50, **D**=48g, $14.00 (750 seeds/g)

4519CO Cilantro OG *Coriandrum sativum* CCOF ③ **A**=1g, 80¢ (~60 seeds), **B**=4g, $2.00, **C**=56g, $5.00, **D**=224g, $12.00 (60 seeds/g)

4531BO Bouquet Dill OG *Anethum graveolens* CCOF ③ **A**=2g, 80¢ (~1,400 seeds), **B**=8g, $2.00, **C**=40g, $5.00, **D**=200g, $12.00 (700 seeds/g)

4567BO Bronze Fennel OG *Foeniculum vulgare* OT ① **A**=0.2g, $1.00 (~75 seeds), **B**=0.6g, $2.50, **C**=3g, $5.50, **D**=30g, $14.00 (375 seeds/g)

4665SO Broadleaf Sage OG *Salvia officinalis* CCOF ③ **A**=1g, 80¢ (~125 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=48g, $12.00 (125 seeds/g)

MEDICINAL HERBS

4708AO Anise Hyssop OG *Agastache fæniculum* MT ① **A**=0.2g, 90¢ (~520 seeds), **B**=1g, $2.20, **C**=5g, $5.50, **D**=25g, $14.00 (2600 seeds/g)

4711RO Arnica Chamissonis OG *A. c. Seed in short supply.* **NEW!** MOFGA ① **A**=0.02g, $1.00 (~50 seeds) (2,600 seeds/g)

4713WO Ashwagandha OG *Withania somnifera* OT ① **NEW! A**=0.1g, 90¢ (~100 seeds), **B**=0.4g, $2.20, **C**=1.2g, $5.50, **D**=6g, $14.00 (1,000 seeds/g)

4714TO Astragalus OG *A. membranaceus* MOFGA ① **A**=0.2g, 90¢ (~10 seeds), **B**=0.6g, $2.20, **C**=2.4g, $5.50, **D**=7.2g, $14.00 (50 seeds/g).

4748BO Borage OG *Borago officinalis* CCOF ③ **A**=0.5g, 90¢ (~25 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $12.00 (50 seeds/g)

4777CO Purple Coneflower OG *Echinacea purpurea* MOFGA ① **A**=1g, $1.00 (~260 seeds), **B**=4g, $2.50 (260 seeds/g)

4787FO Feverfew OG *Tanacetum parthenium* MT ① **A**=0.1g, $1.00 (~800 seeds), **B**=0.4g, $2.20, **C**=2g, $5.50, **D**=8g, $12.00 (8 seeds/g)

4837LO Lavender OG *Lavandula angustifolia* CCOF ③ **A**=0.2g, 90¢, **B**=1g, $2.20, **C**=5g, $5.50, **D**=20g, $12.00

4866MO Marshmallow OG *Althaea officinalis* MOFGA ① **A**=0.4g, $1.00 (~260 seeds), **B**=1.2g, $2.50, **C**=6g, $5.50, **D**=24g, $14.00 (650 seeds/g)

4873TO Milk Thistle OG *Silybum marianum* MOFGA ① **A**=1g, $1.00 (~40 seeds), **B**=4g, $2.50, **C**=28g, $6.00 (40 seeds/g)

4909SO Stinging Nettle OG *Urtica dioica* MOFGA ① **A**=0.2g, 90¢ (~1,240 seeds), **B**=0.6g, $2.20, **C**=2.4g, $5.50, **D**=7.2g, $12.00 (6,200 seeds/g)

ANNUAL FLOWERS

5013EO Elephant Head Amaranth OG *A. gangeticus* OT ① **A**=0.1g, 90¢, **B**=0.3g, $2.50, **C**=1.2g, $5.50

5052BO Blue Boy Bachelor's Button OG *Centaurea cyanus* CCOF ③ **A**=1g, 90¢, **B**=28g, $4.00, **C**=112g, $9.00, **D**=1lb, $30.00

Calendula *C. officinalis*

5079FO Flashback OG OT ① **A**=1g, $1.00, **B**=4g, $2.20, **C**=12g, $5.50

5085PO Pacific Beauty Mix OG ID, CCOF ①③ **A**=2g, 80¢ (~300 seeds), **B**=14g, $2.50, **C**=56g, $6.00, **D**=1lb, $28.00 (150 seeds/g)

5087RO Resina OG MOFGA ① **NEW! A**=1g, 90¢ (~70 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=64g, $18.00 (70 seeds/g)

5089ZO Zeolights OT ① **NEW! A**=1g, $1.00 (~150 seeds), **B**=4g, $2.50, **C**=12g, $7.00, **D**=1oz, $12.00 (150 seeds/g)

5141NO Sensation Mix Cosmos OG *C. bipinnatus* CCOF ③ **A**=1g, 80¢, **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $14.00

5176KO Kiss-Me-over-the-Garden-Gate OG *Polygonum orientale* MOFGA ① **A**=1g, $1.10 (~120 seeds), **B**=3g, $2.50, **C**=12g, $7.00

5178SO Blue Spire Larkspur OG NOFA VT ① **A**=1g, $1.20 (~330 seeds), **B**=4g, $3.00, **C**=16g, $9.00, **D**=80g, $32.00

5236TO Tashkent Marigold OG *Tagetes patula* MOFGA ① **A**=1g, $1.00. *Not available in larger sizes.*

Morning Glory *Ipomoea* spp.

5273HO Clarke's Heavenly Blue Morning Glory OG *I. tricolor* CCOF ③ **A**=3.5g, $1.00, **B**=14g, $4.00, **C**=56g, $14.00

5275KO Kniola's Purple OG *I. purpurea. Seed in short supply, order early.* MOFGA ① **A**=0.25g, $2.00 (~10 seeds) (40 seeds/g) *Available in size A only.*

5289JO Jewel Mix Nasturtium OG *Tropaeolum majus* CCOF ③ **A**=4g, $1.00 (~25 seeds), **B**=12g, $2.50, **C**=48g, $7.00, **D**=1lb, $36.00

Poppy *Papaver* spp.

5318EO Elka OG MOFGA ① **A**=0.1g, 80¢ (~700 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00

5320ZO Ziar Breadseed OG MOFGA ① **A**=0.1g, 90¢ (~700 seeds), **B**=0.3g, $2.20, **C**=1.2g, $6.00

5334LO Large Lavender OG MOFGA ① **A**=0.2g, 80¢ (~1,400 seeds), **B**=1g, $2.00, **C**=4g, $5.00

5337RO Laura OG MOFGA ① **A**=0.2g, $1.00 (~480 seeds), **B**=1g, $2.50, **C**=5g, $6.00 (2,400 seeds/g)

5421EO Selma Suns Mix Sunflower OG *Helianthus annuus* MOFGA ① **A**=1g, 80¢ (~55 seeds), **B**=3g, $2.00, **C**=12g, $5.00. *Not available in size D, order size C.*

6432HO Flower of the Hour OG *Hibiscus trionum* MOFGA ① **A**=0.2g, $1.80 (~50 seeds), **B**=0.8g, $6.00 (250 seeds/g)

GRAINS & GRASSES

5910YO Sheba Barley OG *Hordeum vulgare* BSO ① **A**=28g, $1.00 (~885 seeds), **B**=84g, $2.50, **C**=420g, $7.00 (31 seeds/g)

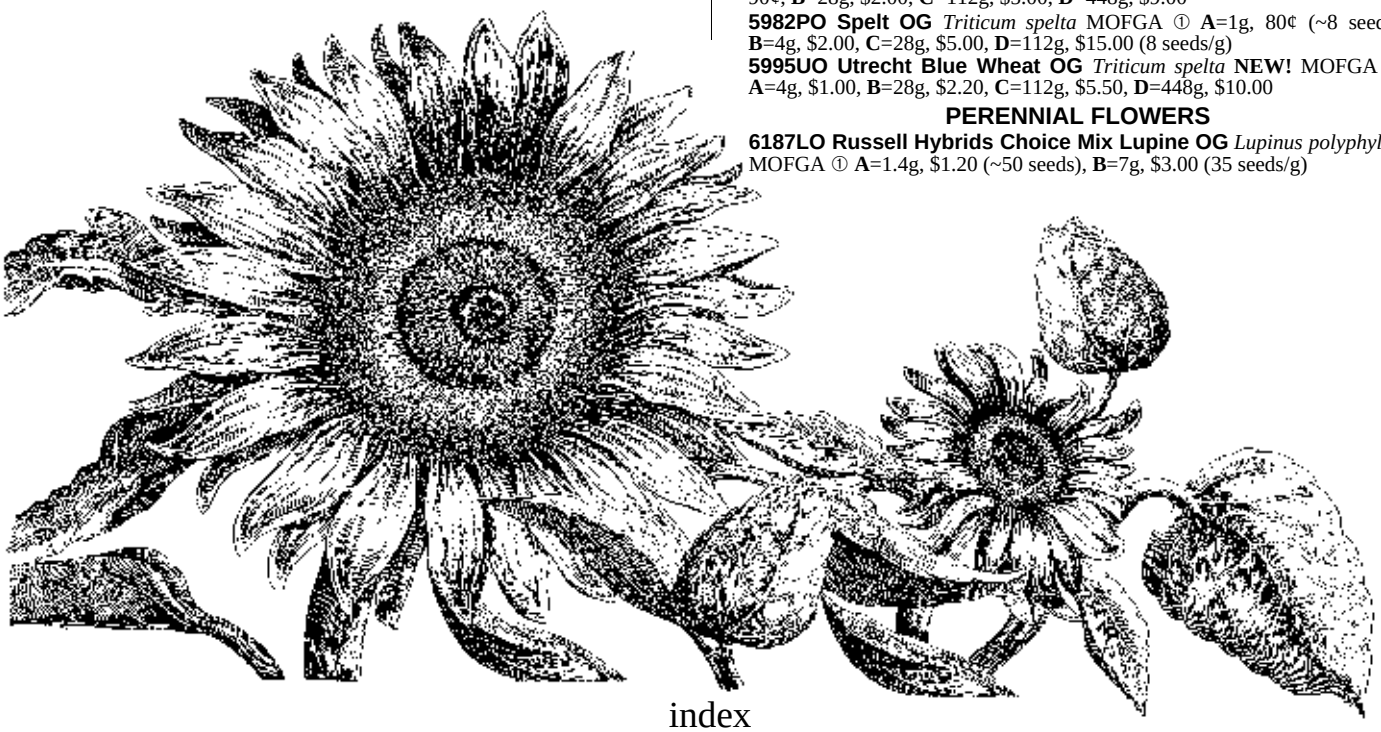
5962TO Terra Hulless Oats OG *Avena nuda* MOFGA ① **NEW! A**=4g, 90¢, **B**=28g, $2.00, **C**=112g, $5.00, **D**=448g, $9.00

5982PO Spelt OG *Triticum spelta* MOFGA ① **A**=1g, 80¢ (~8 seeds), **B**=4g, $2.00, **C**=28g, $5.00, **D**=112g, $15.00 (8 seeds/g)

5995UO Utrecht Blue Wheat OG *Triticum spelta* **NEW!** MOFGA ① **A**=4g, $1.00, **B**=28g, $2.20, **C**=112g, $5.50, **D**=448g, $10.00

PERENNIAL FLOWERS

6187LO Russell Hybrids Choice Mix Lupine OG *Lupinus polyphyllus* MOFGA ① **A**=1.4g, $1.20 (~50 seeds), **B**=7g, $3.00 (35 seeds/g)



Variety Descriptions by CR Lawn - As indicated in the descriptions, some selections are more suitable for home gardeners than commercial growers. Farming/gardening is more an art than a science. Microclimate, soil type and cultural practices are among the many factors significantly affecting performance. Success in our trials is not a guarantee of success in your plot. We advise market growers to trial unfamiliar varieties on a small scale before making a full commitment.

As a guide to growers we've included information about disease tolerance/resistance provided by our suppliers. We are not plant pathologists and cannot guarantee that tolerant or resistant cultivars will never be harmed. Actual performance in the field depends on climate, weather and cultural practices which we cannot control. The absence of information on the older varieties does not mean they will keel over at the first sign of stress. While conscious breeding for disease tolerance/resistance began relatively recently, time-honored heirloom cultivars have proven adaptable to a variety of conditions. Following are abbreviations which appear after some variety descriptions. A number after the abbreviation indicates which race of pathogen.

ALS	Angular Leaf Spot	NCLB	Northern Corn Leaf Blight
ALTS	Alternaria Leaf Spot	NY 15	NY 15 Mosaic Virus
ANTH	Anthracnose	PEMV	Pea Enation Mosaic Virus
ASC	Alternaria Stem Canker	PLR	Pea Leaf Roll
BLS	Bacterial Leaf Spot	PM	Powdery Mildew
BR	Black Rot	PPMV	Pepper Mosaic Virus
BS	Bacterial Speck	PR	Pink rot
BSR	Bacterial Soft Rot	PS	Peronospora
CBMV	Common Bean Mosaic Virus	PY	Potato Y virus
CLS	Cercospora Leaf Spot	S	Semphylium
CMV	Cucumber Mosaic Virus	SC	Sclerotinia
CTV	Curly Top Virus	SEPT	Septoria Leaf Spot
DM	Downy Mildew	SM	Smut
F	Fusarium	ST	Stewart's Wilt
FBR	Fusarium Basal Rot	TEV	Tobacco Etch Virus
FY	Fusarium Yellows	TMV	Tobacco Mosaic Virus
GLS	Grey Leaf Spot	V	Verticillium
GSB	Gummy Stem Blight	W	Common Wilt race 1
LCV	Leaf Curl Virus	X	Xanthemonas
LMV	Lettuce Mosaic Virus	YBM	Yellow Bean Mosaic
N	Nematodes		

OG after cultivar name = entire lot is certified-organic seed. See page 10 for a key to abbreviations of certifying agencies and page 9 for more information about the OG and ECO designations.

ECO after cultivar name = entire lot is sustainably grown seed.

PVP after a variety description = the variety is patent protected. Unauthorized propagation of the seed is prohibited. The use of PVP in the catalog is for informational purposes only and in no way constitutes an endorsement by Fedco of plant patenting.

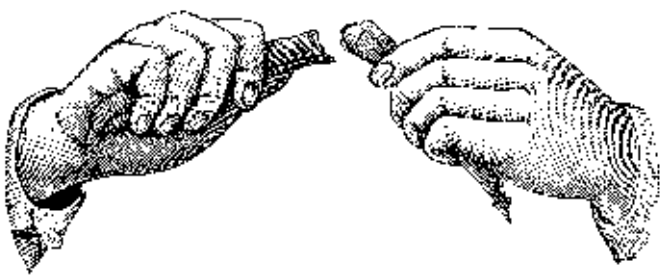
AAS = All-America Selection.

Supplier Codes - We include supplier codes for each variety. Varieties with more than one supplier may have two or more codes. We code according to our best information at press time. When seed is short we must sometimes change suppliers later in the season. We choose varieties based solely on their merits without much regard to supplier preferences. We do not offer genetically engineered varieties, although we purchase from corporations engaged in genetic engineering. Rather than boycotting such suppliers, we prefer to allow you to make your own choices about whom you are supporting and which varieties are best for your garden or farm. Codes are as follows:

① Small seed farmers including Fedco staff.
② Family-owned companies or cooperatives, domestic and foreign.
③ Domestic and foreign corporations not part of a larger conglomerate.
④ Multinationals not to our knowledge engaged in genetic engineering.
⑤ Multinationals who are engaged in genetic engineering.

Prices - Sizes and prices are at the end of each variety description. For larger quantities than listed see instructions for bulk orders of seed on p. 3.

Seed Counts - Seeds per size **A** packet for vegetables are approximate. They are intended as guides not guarantees. Information under specific varieties is based on actual counts from recent packets and information from suppliers. Seed size and count often vary from one year's crop to the next; expect past counts to provide only a rough approximation for 2004.



BEANS *Phaseolus vulgaris*

2 oz. packet sows 25 ft; 1 lb, 200 ft. All beans are open-pollinated. Tender, will not survive frost. Plant 3-4 seeds/ft. in rows 24-30" apart. Pick frequently to keep beans producing, but stay out of the patch in wet weather to prevent spread of fungal diseases. White-seeded beans usually don't germinate as well as dark-seeded. Originally snap beans had tough zipper-like strings between the two halves of the pod which had to be removed before serving. Hence they were called "string beans." Modern stringless beans derive from a series of introductions beginning with Keeney's Stringless Refugee Wax in 1884. Calvin N. Keeney's breeding work was largely responsible for the beans' huge increase in popularity in the late 19th and early 20th century.

BUSH GREEN BEANS

Provider (50 days) Tied with Contender for earliest producer in our trials. For highest early yields, even under adverse conditions, and rich beany taste, old reliable Provider can't be beat. Noted for its concentrated sets of round 5-5½" pods. Our best-selling bean 26 consecutive years. We usually sell around a ton per year. Released by USDA in 1965. Purple seed. Resistant to CBMV, NY 15, PM, DM.

204PR Provider ③ **A**=2oz, $1.00 (~180 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $14.00, **E**=10lb, $22.00, **K**=25lb, $50.00, **L**=50lb, $95.00

205PO Provider OG CCOF-certified ③ **A**=2oz, $1.50 (~180 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00. *Not available in larger sizes.*

208BV Black Valentine (52 days) Clear winner for heavy early yields and outstanding flavor in our test of 25 bush bean varieties a few years ago, besting many old favorites. Introduced by Peter Henderson & Co. in 1897, damned with faint praise by U.P. Hedrick in *The Vegetables of New York* in 1931, yet, almost alone among heirloom bush bean varieties, still retains popularity among home gardeners and canners. And deservedly so, for we do not find it stringy, or the black seeds overly prominent in the pods, as charged by Hedrick. We do find it well adapted to our cool temperatures, early, loaded with sweet succulent round beans in the first picking. Good for freezing, retaining a meaty texture. 6" pods with tendency to curve. Has some drought resistance, though later pickings yield only moderately. Black kidney-shaped seed. ③ **A**=2oz, $1.00 (~165 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00

210ST Strike (53 days) Market growers will strike it rich with heavy yields of medium-green 5½" slender smooth straight round pods. Strike sets the standard for earliness, appearance, and ease of picking, and has a pleasing sweet beany taste. White seed. Resistant to NY 15 and CBMV. ③⑤ **A**=2oz, $1.10 (~210 seeds), **B**=8oz, $3.50, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $32.00, **K**=25lb, $75.00, **L**=50lb, $135.00

214GC Greencrop (53 days) An early flat-podded Romano type especially adapted to the North. Pods can grow up to 8" long while still retaining good quality. Bred by Albert F. Yeager and Elwyn Meader at the University of New Hampshire. 1957 AAS. White seed. Tolerant to CBMV. ③ **A**=2oz, $1.00 (~115 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00

217BM Benchmark (54 days) Tender, sweet, juicy and succulent, far ahead of the rest of the pack in Massachusetts grower Larry Siegel's trial. Expect heavy early concentrated yields of mostly straight 6" round medium-green pods on medium-large upright plants. The price of the seed matches the quality of the variety. PVP. White seed. Resistant to NY 15 and CBMV. Tolerant to CTV. ⑤ **A**=2oz, $1.30 (~190 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $25.00, **E**=10lb, $40.00

224RB Royal Burgundy (55 days) Straight 5" meaty purple pods turn bright green after two minutes of blanching. Less foliage than Royalty Purple Pod. Grows well even in cold conditions. Light brown seed. Resistant to CBMV, NY 15, PM. ③ **A**=2oz, $1.00 (~175 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00

230JD Jade (56 days) PVP. A favorite with both market and home gardeners, Jade offers great yields of tasty 5-7" straight slender round dark green pods. Holding quality is Jade's byword. Pods retain their rich color longer than others, both on the vine and after picking. Jade keeps producing quality pods until late in the season, long after others have quit. Jade's strong upright bush habit holds pods above the ground, reducing curling and tip rot. Pods are tender, yet maintain that traditional bean flavor. In a trial of eight varieties of green snap beans conducted by the University of Maine at Monmouth in 2000, Jade came out well ahead of all others both in yield and pod length. White seed. Resistant to CBMV, NY 15, CTV, tolerant to rust. *Caution: Jade is a fussier germinator than most other bush beans. Be sure your soil temperature is at least 60° and irrigate during dry spells.* ⑤ **A**=2oz, $1.20 (~190 seeds), **B**=8oz, $3.20, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $36.00, **K**=25lb, $82.00, **L**=50lb, $150.00

238BB Bush Blue Lake 274 (57 days) Introduced in 1961 as a bush variety of the famous Blue Lake pole bean. Long considered the taste standard for home garden bush bean varieties. Pods avg. 6", fill slowly with tender, plump beans. Very high yields of yummy green beans. White seed. Resistant to CBMV, NY 15. ③ **A**=2oz, $1.00 (~160 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00

246RM Roma II (59 days) True flat bush Romano bean offers heavy yields of fleshy medium-green 5" pods which are slow to develop seeds. White seed. Resistant to CBMV, NY15. ⑤ **A**=2oz, $1.10 (~200 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $25.00, **E**=10lb, $40.00, **K**=25lb, $90.00, **L**=50lb, $170.00

BUSH HARICOTS VERTS

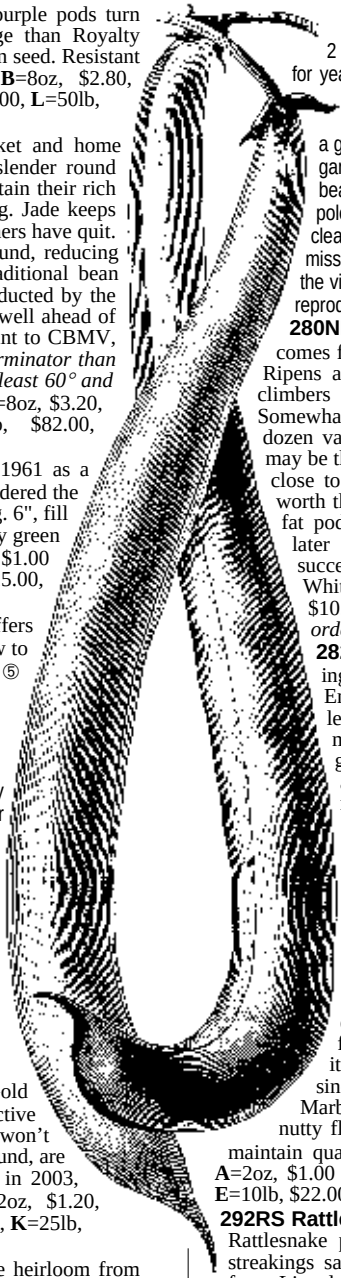
Haricot vert is French for green bean. This type has fancier quality than American beans and commands a premium in markets. For optimal flavor, pick pods while they are still thin before they develop strings.

249MX Maxibel (61 days) Heavy producer of uniform dark green fancy stringless 6-8" pods of exceptional length, ramrod straightness and superb taste. For maximum tenderness and most succulent flavor pick early and often. A gourmet market specialty. Set a Fedco sales record for *haricots verts* as a new item in 1997. Speckled brown seed. ⑤ **A**=1/2oz, 70¢, **B**=2oz, $1.70, **C**=8oz, $6.00, **D**=1lb, $10.00, **E**=5lb, $45.00, **K**=10lb, $80.00

BUSH WAX BEANS

264GI Indy Gold (54 days) In the Wax Bean 500, Indy Gold gets the checkered flag. The tender yellow pods with attractive green tips average 5". Large plants are heavy yielders and won't be slowed by any caution flags. Beans, held high off the ground, are easy to pick. White-seeded. PVP. Tolerates CBMV. New in 2003, had outstanding sales of more than 1,200 packets. ⑤ **A**=2oz, $1.20, **B**=8oz, $3.00, **C**=1lb, $5.50, **D**=5lb, $20.00, **E**=10lb, $36.00, **K**=25lb, $80.00, **L**=50lb, $145.00

277DO Dragon Langerie OG (57 days) Tasty attractive heirloom from the Netherlands also known as Dragon's Tongue. Its compact stocky bushes bear abundant creamy yellow beans mottled with purple tiger stripes. A prolific producer of flat 6" pods that are crisp, stringless and amazingly juicy when eaten fresh. Cook or market promptly after picking; turns rubbery and loses snap when stored. Not recommended for freezing. Loses purple coloration in cooking. Seed purplish brown with blue stripes. ID-certified. *Seed in short supply; order early.* ① **A**=2oz, $1.50 (~120 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00. *Not available in larger sizes.*



POLE BEANS

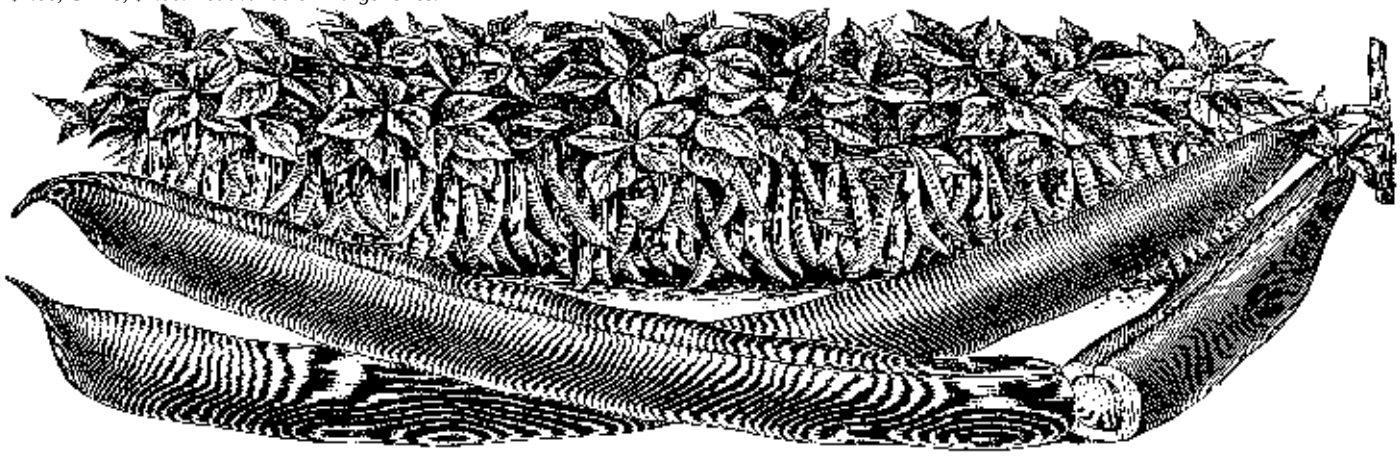
2 oz. packet sows 20 poles, 6 per pole. We've used tipis for staking for years. Will Bonsall suggests letting them climb sunflower stalks (give the sunflowers a 2-week head start). Tom Stearns uses a long sturdy fence (the most space-efficient of all). If you're saving seed, a good yield is 1 lb. per pole. One customer says, "Many people—even gardeners and cooks—have no idea how much better tasting pole beans are. Most bush beans are cardboard by comparison." Do your pole beans tire easily? To keep them vigorous, pick frequently and pick clean, paying particular attention to those fat ones hanging low that you missed last time. Compost the ones that got away; if you leave them on the vine your plants will stop producing, satisfied that they've fulfilled their reproductive mission.

280NE Northeaster (55 days) Also known as Kwintus. The seed comes from Holland. Earliest and best-tasting pole bean we've tried. Ripens almost two weeks earlier than Kentucky Wonder. Vigorous climbers with outstanding flavor which improves with blanching. Somewhat flattened pods don't get tough even when big. Of the several dozen varieties we've tried in recent years, only Early Riser (which may be the same cultivar masquerading under a different name) comes close to matching the early quality of Northeaster. Expensive seed worth the extra cost. Pick frequently in the heat of summer to avoid fat pods. Northeaster loses vitality after several pickings. Plant a later variety if you desire pole beans until frost or make a succession planting of Northeaster in July for September harvest. White seed. ⑤ **A**=1/2oz, $1.00 (~25 seeds), **B**=2oz, $3.00, **C**=8oz, $10.00, **D**=1lb, $18.00, **E**=5lb, $75.00. *Not available in size K, order size E.*

282FX Fortex (60 days) Several customers have been conducting a lively debate with us on the relative merits of Fortex *vs.* Emerité. So far we'll stick with Fortex, preferring its pod length, vigor and tenderness. Although the medium green pods may be harvested at 6-7" for gourmet filet beans, they retain good quality and sweetness without strings even at 10". Jumbo and asparagus beans, the only longer beans we know, are not nearly as tender. Vines stand up to repeated pickings, achieving impressive yields. Expensive walnut-brown seed is worth every penny. ⑤ **A**=1/2oz, $1.00 (~38 seeds), **B**=2oz, $3.00, **C**=8oz, $10.00, **D**=1lb, $18.00, **E**=5lb, $85.00. *Not available in size K, order size E.*

285KW Kentucky Wonder (68 days) Also known as Old Homestead. "Of all the climbing kinds, we do not believe there is a better one than Kentucky Wonder; it is an old variety with solid meaty pods, 7-9" long, that are stringless when young, and when cooked no bean is better. It is enormously productive, the pods hanging in great clusters from top to bottom of the pole." True when Stark Bros. wrote it in their 1924 catalog, still true today. Wonder, a favorite since the mid-1800s, was given its present name by the eminent Marblehead, MA, seedsman James J.H. Gregory in 1877. The nutty flavor makes them outstanding for freezing. Pick regularly to maintain quality and production. Not good when fat. Brown seeds. ③ **A**=2oz, $1.00 (~125 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $22.00, **K**=25lb, $50.00, **L**=50lb, $95.00

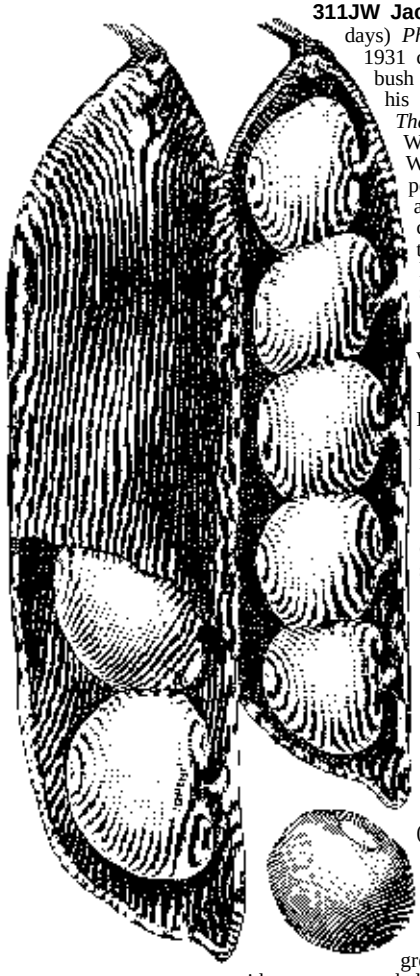
292RS Rattlesnake (70 days) Called Preacher Bean in parts of the South, Rattlesnake produces a good harvest of round 6-7" pods with purple streakings said to resemble the markings of a rattlesnake. Paul Hauser, from Lincoln University, PA, calls it "without question the best-tasting bean we grow. People line up at our market to buy 'Snake' beans." Excellent for freezing. Tan seed with dark stripes. ③ **A**=2oz, $1.00 (~135 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00



MISCELLANEOUS BEANS

299WI Windsor Fava (75 days) *Vicia faba* Bush type. Favas are also called broad beans and horse beans. Although not well known in America they've been mainstays in many other cultures from ancient Rome to Mexico, Brazil and India in modern times. They deserve more widespread popularity because they are ideally adapted to our cool northeast climate. Unlike other beans, favas should be planted as soon as the ground can be worked. They tolerate frost, but do not thrive in hot weather. Sow the large seeds 3-4" apart. Harvest when the light green beans in the 6" glossy pods reach the green shell stage. Parboil one minute, drain and cool, slip from skins, and cook about 5-10 minutes more. Windsor is the classic heirloom variety, listed by Fearing Burr in *Field and Vegetable Gardens of America* in 1863. Brown seed. ②③ **A**=2oz, $1.00 (~35 seeds), **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $28.00, **K**=25lb, $60.00, **L**=50lb, $110.00

307KO Black Kabouli Garbanzo Bean OG (115 days) *Cicer arietinum* A cool-weather crop cultured like peas, garbanzos hail originally from Afghanistan. Black Kabouli was developed at Washington State University to be tolerant of cold soils and light frosts. 2' plants with ornamental purple flowers bear abundant two-seeded pods resembling beach peas with black medium-sized beans. OCIA-certified. ① **A**=2oz, $1.00 (~210 seeds), **B**=8oz, $3.50, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $35.00



311JW Jackson Wonder Lima (103 days) *Phaseolus lunatus* Hedrick in 1931 called it "the hardiest of all bush limas, very productive." In his *100 Vegetables and Where They Came From* William Woys Weaver highly praises Jackson Wonder for delivering unexpected benefits. Its baby pods are so tender they can be cooked like snow peas, while the mature beans are so handsome they'd make a stunning bead necklace. Atlanta, GA, farmer Thomas Jackson's drought-tolerant variety created a sensation when it was introduced by Philadelphia seed house David Landreth & Sons in 1888 because it was much more productive than extant bush varieties, even though it stands only 18" tall. Wonder features about 3 seeds per curved pod, grey in the shell stage and drying to buff-colored with lovely purple and black mottling, as succulent as they are decorative. As an added bonus Wonder's sweet-smelling white flowers attract butterflies. ③ **A**=2oz, $1.00, **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $16.00, **E**=10lb, $25.00. *Not available in larger sizes.*

318SR Scarlet Runner (70 days) *P. coccineus* Climbing beans often grown as ornamentals for their brilliant scarlet blossoms which attract hummingbirds. Need trellises, fences, or poles; will grow to 10-12'. Can be eaten either as snap or shell (95 days) beans. Beautifully mottled purple and black seeds. Heirloom variety grown as early as 1750 by colonists and in 1791 by Thomas Jefferson. ② **A**=1oz, $1.25 (~23 seeds), **B**=2oz, $2.00, **C**=8oz, $6.00, **D**=1lb, $10.00, **E**=5lb, $40.00

323MT Mitla Black Tepary ECO (85 days) *P. acutifolius* Tepary beans, a distinct species, have been grown as a summer crop by the O'odham people since prehistoric times. Notable for their ability to withstand intense sunlight, daytime temperatures over 100˚, the extreme arid conditions of the Sonoran desert and to produce abundantly even on poor soils. Alone among the teparys we've trialed, Mitla Black is adaptable to our very different northeast climate. Its dense plant produces medium runners, lavender flowers and good yields of thin, delicate pods each containing 5-6 small lustrous black seeds. A good crop for new plots; they cover the ground and build the soil. The great-tasting nutritious beans are excellent in black bean soup and for refries. Slightly smaller and rounder than other Sonoran teparies, and less day-length sensitive. Teparies should be pre-soaked and tend to take longer to cook than other beans. Originally from the Mitla Valley in Oaxaca, Mexico. *Seed in short supply, order early.* ① **A**=1/2oz, 90¢ (~75 seeds), **B**=2oz, $2.00, **C**=8oz, $6.00

SOUP, SHELL AND DRY BEANS *Phaseolus vulgaris*

We hope the April 23, 2003, New York Times article by food writer Kay Rentschler continues the revival of interest in heirloom dry beans. Rentschler described them as "plump, glistening and showing off curves...pumped up and ready for action." These really are some of the most beautiful of all seeds with "names like exotic dancers (Red Nightfall, Black Valentine, Tongues of Fire, Tiger Eye), they possess real character beneath their stunning skins." Inspired by Herbert Birch's trials and his incredible displays at Common Ground Fair, we have been trying many old heirlooms rarely offered in commerce.

All bush beans except where noted.

326DW Taylor Dwarf Horticultural Shell (68 days) Also known as Speckled Bays, this heirloom bush shell bean predates 1800. Early producers of cream-colored pods which are ready to shell when carmine-red splashes appear. Shell right after picking, boil until tender (30-45 minutes) and mix with olive oil, chopped garlic and parsley for a late summer treat. Buff seed with red stripes. ③ **A**=2oz, $1.00 (~120 seeds), **B**=8oz, $2.80, **C**=1lb, $4.20, **D**=5lb, $15.00, **E**=10lb, $24.00, **K**=25lb, $50.00, **L**=50lb, $95.00

328VC Vermont Cranberry (70 days shell, 95 days dry) A New England tradition since before 1800. Pods contain 5 to 6 speckled cranberry-colored shell beans. Reliable, hardy and easy to shell. Seed grown in Maine. *Caution: viney habit has not been bred out of this cultivar.* ① **A**=2oz, $1.10 (~130 seeds), **B**=8oz, $3.50, **C**=1lb, $6.00, **D**=5lb, $25.00, **E**=10lb, $45.00

332CN Cannellini (80 days shell, 100 days dry) Also known as Cannelone, predates 1900. 1/2" white kidney shell bean. Our staff taste test drew such comments as "really scrumptious—where's the tortillas?" "creamy delicious," and "my favorite." The mild-tasting beans become tender when cooked, perfect for minestrone and other soups or stews. Good performer in cool weather. ① **A**=2oz, $1.10 (~100 seeds), **B**=8oz, $3.50, **C**=1lb, $5.00, **D**=5lb, $20.00, **E**=10lb, $40.00

335LL Limelight (60 days shell, 85 days dry) An excellent shelly or dry bean. Compact plants set light green to white seeds which are similar in shape, color and taste to baby limas, except sweeter, with a buttery texture. Very early for a dry bean, much easier to grow than limas in our climate. Developed in Alberta, Canada. Seed grown in Maine. **BACK!** ① **A**=2oz, $1.10, **B**=8oz, $3.50, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00

336KE King of the Early (85 days) Some years back, seed-saving customer Linwood Ware sent us a sample of this beautiful mottled red baking bean. King's ability to ripen early, its capacity to swell enormously when soaked, its utter dependability through hot summers and cool, and its robust flavor won our hearts. We've found King of the Early easy to grow and heavy yielding year after year. Seed grown in Maine. ① **A**=2oz, $1.10 (~100 seeds), **B**=8oz, $3.50, **C**=1lb, $5.00, **D**=5lb, $20.00, **E**=10lb, $40.00

337MO Maine Sunset OG (85 days) Heirloom dating back at least to the 1930s maintained by longtime Unity Coop member Pearl Smith for many years. An early-bearing variation of the Soldier type featuring beautiful plump round-oval ivory-white beans irregularly splotched with brownish-maroon and blood-orange splashes around the hilum. A wonderful baking bean, with a creamy texture and rich flavor when cooked, comparable to Maine Yellow Eye. Good yielder. Seed organically grow by LaCourse Family Farm in Maine, MOFGA-certified. ① **A**=2oz, $1.20 (~180 seeds), **B**=8oz, $4.50, **C**=1lb, $7.00, **D**=5lb, $22.00, **E**=10lb, $40.00

338MF Marfax (86 days) Heirloom resembling Swedish Brown Bean, but earlier and higher yielding. Richly flavored brown baking bean very adaptable to our cool climate. Golden tan seed produced in Maine. ① **A**=2oz, $1.10 (~148 seeds), **B**=8oz, $3.50, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

339DO Drabo OG (86 days) More people should try this Swiss heirloom which won our 1999 dry-bean taste test. These large oblong white beans cook quickly with good flavor and texture both as shell beans and baked beans. Have a wonderful consistency great for a bean dip. Average yield but above average quality. Earliness also a plus. MOFGA-certified. ① **A**=2oz, $1.10 (~180 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $35.00

340HU Hutterite (88 days) The Hutterites, a communal Anabaptist sect who crossed the ocean to settle in Canada in the 1750s, brought with them these delicious soup beans. Marianne Schumacher of Sun Prairie, WI, reports, "Hutterite soup beans…are fantastic in cooking. I love the chowder with them. Or bean soup with ham is awsome! It's a steaming hot, tasty healthy food in Wisconsin's cold winter weather." The greenish-tan plump beans with a charcoal ring around the hilum turn into delicious creamy chowder in a little under an hour cooking time. 2-3' bushes are good yielders. ① **A**=1/2oz, 70¢ (~25 seeds), **B**=2oz, $1.60, **C**=8oz, $5.00, **D**=1lb, $8.00, **E**=5lb, $25.00, **K**=10lb, $45.00

342JC Jacob's Cattle (88 days) Popular New England heirloom variety may have originated with Native Americans in the Southwest. Derives its name from the biblical story of Jacob and the spotted cattle. Its dark red speckles on white background are said to look like the cattle's markings. If harvested earlier the kidney-shaped beans make superb shellies. ① **A**=2oz, $1.10 (~95 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

350SD Soldier (89 days) These large drought-tolerant white kidney beans with red-brown soldier-like figures on the eyes are the only active soldiers that I care to have. A New England favorite for generations. Attack a plate of these with gusto; they don't fight back. Seed grown in Maine. ① **A**=2oz, $1.10, **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

355JO Aunt Jean's Pole OG (90 days) A fine baking bean with a delicate creamy texture and a sweet nutty flavor that will have you returning for seconds just as Gene did during our taste test. Seeds are round, shiny and white with a maroon eye. Shuck off the shells, the flavor excels. MOFGA-certified. ① **A**=1/2oz, 90¢, **B**=2oz, $2.50, **C**=8oz, $6.00, **D**=1lb, $9.00. *Not available in larger sizes.*

356CP Calypso (90 days) A dramatic find from the Common Ground Fair Exhibition Hall some years back. We knew instantly that we had to offer these stark and stunning beans with markings uncannily similar to the Chinese yin/yang symbol. This black and white dry bean even includes a contrasting dot. Though not as heavy a yielder as King of the Early, Calypso dependably produces 4-5 beans per pod, with a texture similar to Yellow Eye. Seed grown in Maine. ① **A**=2oz, $1.10 (~115 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $20.00, **E**=10lb, $40.00

358MO Monos Negros OG (90 days) The name means "black monkeys" in Spanish. Marina Davis brought this small heirloom black bean to our attention. Plant economy and extreme earliness are its primary assets. Plants neither sprawl, twine nor get moldy. Monos ripens much earlier than Black Turtle, but with not quite as rich flavor. Seed originally collected by Will Bonsall from Salvadoran immigrants in Vassalboro, ME. Seed grown by LaCourse Family Farm, MOFGA-certified. ① **A**=2oz, $1.20 (~194 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00. *Not available in larger sizes.*

366PO Agate Pinto OG (92 days) A bush pinto with medium-sized mottled beans of rich spicy flavor. Rogers Bros. succeeded in breeding out the usual sprawling runners, a breakthrough in Pinto development which makes Agate easy to harvest. Seed grown by LaCourse Family Farm, MOFGA-certified. ① **A**=2oz, $1.20 (~130 seeds), **B**=8oz, $4.00, **C**=1lb, $6.00, **D**=5lb, $20.00, **E**=10lb, $40.00

368YE Maine Yellow Eye (92 days) This very old variety, with many different strains is one of Maine's most popular dry beans. Plump oval medium-sized beans, cream with yellow eye. All three prize-winning recipes at the first Maine Food Festival "Best Baked Beans in Maine" contest used Yellow Eyes. Seed grown in Maine. ① **A**=2oz, $1.10 (~115 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

371CO True Red Cranberry Pole OG (95 days) A once-rare heirloom rediscovered by bean collector John Withee (see our 1999 catalog) and first offered by our friends at the Abundant Life Seed Foundation. Inspired by a description of "Red Cranberry" in a 1700s gardening encyclopedia, after an 11-year search Withee obtained it from a Mr. Taylor of Steep Falls, ME. The plump round maroon seeds look just like Thanksgiving cranberries, unlike the bush cranberry types which are usually oval and speckled. True Cranberry is one of our oldest varieties, probably sown by Native Americans. A moderate climber to 6', Cranberry is unfazed by short cool growing seasons. Won plaudits for its rich full-bodied flavor at our staff taste test. MOFGA-certified. ① **A**=2oz, $1.50, **B**=8oz, $5.00, **C**=1lb, $9.00, **D**=5lb, $35.00. *Not available in larger sizes.*

376RK Red Kidney (102 days) Early-maturing variety of light red kidney baking bean developed at Cornell University. Large beans mature at least a week earlier than similar types. Seed grown in Maine. ① **A**=2oz, $1.10 (~105 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

384BT Black Turtle (104 days) The original Black Turtle, from before 1806, was offered by Grant M. Thorburn, one of the first U.S. seedsmen, in 1832. This strain, an improved upright bush version of the heirloom, was more recently developed by Cornell University. Small black beans with rich spicy flavor popular for soup. Seed grown in Maine. ① **A**=2oz, $1.10 (~305 seeds), **B**=8oz, $3.20, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00

SOYBEANS *Glycine max*

The Japanese call them edamame (ed-ah-mah-may), and boil and salt them like beer nuts. Sow around the same time as sweet corn and harvest when most of the pods have expanded but are still green and show no yellowing. Boil the pods for 5 minutes, chill quickly for easy shelling. Refrigerate beans that you don't consume immediately. Edamame are rich in vitamins C and E, calcium, protein and dietary fiber. Fresh market growers often cut off plants near the base, remove the leaves and bunch the plants into 1 lb. units, eliminating the need to pick each pod individually. If you'd like to know more about edamame we recommend an excellent article by John Navazio in the June/July 2002 issue of Mother Earth News. Japanese beetles have finally reached this far north. They can sure do a number on all beans, and particularly love soybeans. Milky spore disease (#8881-8882 in our supplies section) is the best antidote.

484BF Beer Friend (87 days) To paraphrase an old commercial, "If you've got the Beer, we've got the Friend." Robust is the word for these fast-growing lush 2 1/2-3' vines. They were quicker to size up and grew bigger pods than the other eight varieties we tried, without sacrificing an iota of flavor, and held their quality over a fairly long picking window. Stock up on your favorite brew and get ready for a treat. Actually, you don't need the brew. We enjoyed them last August served just with fresh-picked corn and new potatoes. **NEW! A**=1/2oz, $2.00, **B**=2oz, $5.00, **C**=8oz, $18.00, **D**=1lb, $35.00

Shirofumi (90 days) We've finally caught up to the demand for this succulent nutty treat and have plenty of seed on hand. Vigorous thigh-high vines make early concentrated sets of light green pods, averaging two beans per pod. The 10-day picking window is generally from late August through early September. Makes an excellent substitute for limas in short-season areas. Our stock seed came from Tom Vigue, who has done considerable work with this crop. Soybean seed is easy to save; expect about 1 lb. per 10 row feet.

488FU Shirofumi ECO ① **A**=1/2oz, 90¢, **B**=2oz, $2.00

489FO Shirofumi OG ID-certified. ① **A**=1/2oz, $1.00 (~42 seeds), **B**=2oz, $3.00, **C**=8oz, $9.00, **D**=1lb, $16.00. *Not available in larger sizes.*

492SA Sayamusume (92 days) Ripens just after Shirofumi with longer, sweeter and darker green pods. The best-tasting variety in CR's and Roberta's grow-outs with an appealing sweetness if allowed to ripen fully. 2.21 beans per pod in our 2001 plot, compared to 1.99 for Shirofumi. For areas with sufficient heat units, Sayamusume is our choice to complete the season. Ripens Aug. 25 for us in a normal year. **NEW! A**=1/2oz, $1.50, **B**=2oz, $5.00, **C**=8oz, $14.00, **D**=1lb, $25.00

AMAIZING CORN *Zea mays*

2 oz packet sows 50 ft, 1 pound sows 400 ft. CAUTION: Untreated sweet corn seed will not germinate in cold wet soil. Please be patient and wait till soil warms to at least 60˚ before sowing, or start seedlings indoors and transplant at 3-6" stage before taproots take off. Tender, will not survive frost. Heavy nitrogen requirements. Rows 3' apart, 4 seeds/ft. Thin to 1' apart. When corn is knee-high, a side-dressing of azomite or alfalfa meal can really stimulate growth. Should be planted in blocks of at least 4 rows to ensure adequate pollination, essential for good tip fill.

If you have trouble with crows pulling up seedlings, use Bird-Scaring Balloons (see #9320) or cover sowings with floating row covers (#9101). Remove covers at 3-6" stage to avoid plant abrasion. A few drops of mineral oil applied to the silks can substantially reduce earworm damage. Although we know of no sure defense against critters, interplanting with pumpkins may improve the odds.

Seed catalogs in the 1800s featured "Indian Corn," decorative multi-colored ears with soft starchy kernels easily ground into flour or with flinty kernels often used to make corn meal and grits (#680-699); dent corn with indented kernels eaten fresh or roasted in the milk stage or used to make flour, corn meal, grits and cereal; field corn for animal forage and silage (#8060); and sugar corn, forerunner of today's sweet corn. Sweet corn, probably originally a mutation of flint or dent corn or both first appeared in a seed catalog in 1828 and became popular a generation later. Many of the old varieties had great names, my all-time favorite is a white sweet corn called Howling Mob. As sweet corn became the first crop to be hybridized, most of the open-pollinated varieties disappeared from commerce between 1930 and 1970. We are working to get some of the best back in our catalog, but they do not hold as long, nor are they as sweet as modern hybrids and will require a change in our taste preferences if they are ever to come back into vogue.

Most of our recent introductions have been homozygous sugary enhanced crosses (five from the superb breeding program at Mesa Maize). All SE sweet corn traces back to a single inbred developed in the 1960s in Illinois by Dr. Dusty Rhodes, ILL677a. Trialers Donna Dyrek (Loon Song Farm) and I (Shooting Star Farm) have found sugary enhanced corn to be especially suitable to our climate, with good cool-soil tolerance and a near-perfect blend of sugars and corn flavor. We have had wonderful growing years for sweet corn in 2002 and 2003 and delightful cornfests at Dyrek's, but have not been able to agree on our favorites so have not altered our selections.

This year we are initiating cold testing for all significant carryover lots of sweet corn seed. Cold testing mimics spring conditions and assesses suitability for sowing in cool soils. We will post results on our website: www.fedcoseeds.com.

Because pollen is wind-blown, sweet corn presents some risks of contamination from nearby genetically engineered fields. We continued our program of random sampling of our sweet corn lots for genetic contamination by sending 2002-grown lots of Lancelot, Kandy Plus and For Heaven's Sake to Genetic ID in Iowa for testing. All tested negative for GMOs. In three years we have never had a positive test.

YELLOW SWEET CORN

508ST Spring Treat (71 days) The choice of early corn connoisseurs, Spring Treat has been our most popular sweet corn since its introduction in 1995. Sales exceeded 1,300 packets and a quarter ton of seed in 2003. We've tasted a lot of new earlies in recent years, but none have zinged our taste buds like this yellow **sugary enhanced hybrid**. Showing good cold soil emergence, Spring Treat ripens around the time of Sugar Buns, but with longer ears that are easier to pick. The real clincher is its rich corny taste that we hadn't enjoyed since Intrepid. Not as sweet as Sugar Buns, but better eating quality, ear length and appearance than any other early corn. ③ **A**=2oz, $1.50 (~280 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00, **D**=5lb, $40.00, **E**=10lb, $70.00

516AO Ashworth OG (72 days) A composite of early varieties originally developed by the late Fred Ashworth of St. Lawrence Nurseries and marketed by Johnny's Selected Seeds starting in 1978. Legend has it that Ashworth originally named his variety "Rat Selected" in honor of the rodents who broke into his seed storage room and alerted him to certain kernels which they preferred. Its short stalks have 6-7" yellow ears with good flavor. Be sure to harvest it at peak milk stage—like all **open-pollinated** corn it does not hold quality for long in the field. Germinates well in cool soil. OCIA-certified. ① **A**=2oz, $1.40 (~210 seeds), **B**=8oz, $5.00, **C**=1lb, $8.50, **D**=5lb, $36.00, **E**=10lb, $70.00

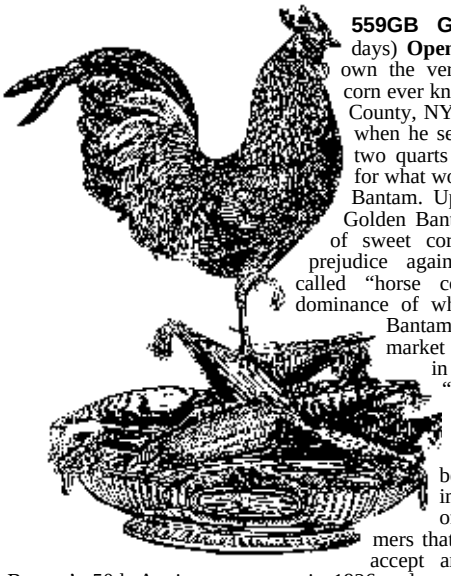
524SB Sugar Buns (74 days) Yellow **sugary enhanced hybrid** from Crookham with melt-in-your-mouth tenderness. About as sweet as our palates like, but not cloying like the supersweets. Sugar Buns does not have as good cold soil emergence as other early corns; please don't rush it. ② **A**=2oz, $1.50 (~405 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00, **D**=5lb, $40.00, **E**=10lb, $70.00

536HS For Heaven's Sake (77 days) **F-1 hybrid**. You'll feel like you're in heaven when you bite into one of these delicious tender 8" yellow ears. Unlike other sugary enhanced sweet corns with such outstanding eating quality, For Heaven's Sake was not bred to ripen all at once. Instead, it matures over about a week, meeting the needs of home gardeners and small-scale direct marketers who don't want all their corn at once. Excellent tip-fill makes an attractive package. ⑤ **A**=2oz, $1.60 (~405 seeds), **B**=8oz, $6.00, **C**=1lb, $10.00, **D**=5lb, $45.00, **E**=10lb, $85.00

540BD Bodacious (77 day) Crookham's **sugary enhanced hybrid** has exceptionally sweet corny tender yellow kernels that taste as good as its name! Outstanding 8" ears every year. Resistant to ST. ② **A**=2oz, $1.40 (~270 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $36.00, **E**=10lb, $65.00

546KP Kandy Plus (78 days) **F-1 hybrid**. When I want a robust ear of corn that really delivers on size and flavor, I reach for Kandy Plus. You want handsome? Only Silver Queen comes close to matching Kandy Plus' perfect appearance. You want size? How about 8½" cylindrical ears usually filled all the way to the tips. Flavor? "Kandy" says all you need to know about its sweetness. "Plus" is the corny quality it delivers on top of the sweetness. Grow Kandy Plus for a classic midseason yellow **homozygous sugary enhanced** treat. Be aware that ears are really fat when ripe; don't pick too soon. Resistant to common rust. Tolerant to ST and NCLB. ⑤ **A**=2oz, $1.40 (~380 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00, **D**=5lb, $38.00, **E**=10lb, $70.00

556TX Tuxedo (80 days) **Sugary enhanced hybrid.** Meet Tuxedo, a well-dressed yellow sweet corn with good husk protection to keep those pesky earworms out! Its surface attributes are bolstered by its rich sweet tender corny taste and handsome 8" ears with 16 rows of delicious kernels that will melt in your mouth. Tuxedo can germinate at cool temperatures and withstand a fair amount of stress. Tolerant to ST, rust and smut. This is the closest I've come to wearing a tuxedo since my high school prom. ③ **A**=2oz, $1.40 (~355 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $36.00, **E**=10lb, $65.00



559GB Golden Bantam (85 days) **Open-pollinated**. "You now own the very sweetest and richest corn ever known," wrote Washington County, NY, seed grower E. L. Coy when he sent Mr. Burpee less than two quarts of seed in spring 1900 for what would be known as Golden Bantam. Upon its release in 1902, Golden Bantam changed the history of sweet corn, overcoming popular prejudice against yellow corn (once called "horse corn") and ending the dominance of white varieties. By 1934, Bantam had so captured the market that U.P. Hedrick wrote in *The Corns of New York*, "This has been for several years the most popular sweet corn for all purposes. The name has become so thoroughly impregnated in the minds of the growers and consumers that many of them will not accept anything else." Graced Burpee's 50th Anniversary cover in 1926 and was still popular enough in 1980 to make Johnny's cover. We are offering the original 8-row Bantam, not the "improved" 12-row selection. Long narrow 7" ears sit on 5-6' stalks. Very sweet and tasty if picked promptly at maturity. High on old-fashioned corn flavor. Like most open-pollinated corn, Bantam passes quickly through the milk stage and gets tough. Be alert and check daily as ripeness approaches. ③ **A**=2oz, $1.20 (~210 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00, **D**=5lb, $30.00, **E**=10lb, $55.00

560NC Incredible (85 days) Crookham's superior late-midseason **sugary enhanced hybrid** was a full tassel-length ahead of the competition at the Loon Song Farm trial, where its handsome 8" tip-filled yellow ears were just scrumptious. Incredible is not merely sweet; it really delivers a deep corn taste. Good husk protection and tolerance to rust and ST. Poor cold soil emergence. ② **A**=2oz, $1.40 (~515 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $36.00, **E**=10lb, $65.00

564KK Kandy Korn (89 days) Attractive deep purple husks and excellent holding quality make this **hybrid** yellow corn a real winner at roadside stands. One of the first **sugary enhanced** varieties, Kandy Korn has stood the test of time, and continues to enjoy well-deserved popularity. Tolerant to ST, common rust. ⑤ **A**=2oz, $1.30 (~235 seeds), **B**=8oz, $4.50, **C**=1lb, $7.50, **D**=5lb, $36.00, **E**=10lb, $65.00

BICOLOR SWEET CORN

576QU Quickie (71 days) *Not available in 2004; replaced by Fleet*

577FL Fleet (72 days) In sweet corns, the race is not always to the fleet. Most of the corns first to the finish line just don't deliver on flavor. Fleet, a **homozygous sugary enhanced** version of Quickie, is the exception, just a whisker behind Quickie in maturity, but several mouthfuls ahead in eating quality. Along with Quickie, became the first sweet corn at Shooting Star Farm ever to ripen in July (the 26th) from mid-May transplanting during the hot dry spring of 1999. The 7" bicolor ears fill nicely to the tips with enough succulence to bring your roadside stand customers back for more. Not as good cold soil emergence as Quickie, but its superior flavor tips the balance for us. *Seed in short supply; order early.* ② **BACK! A**=2oz, $1.40, **B**=8oz, $5.00, **C**=1lb, $8.00

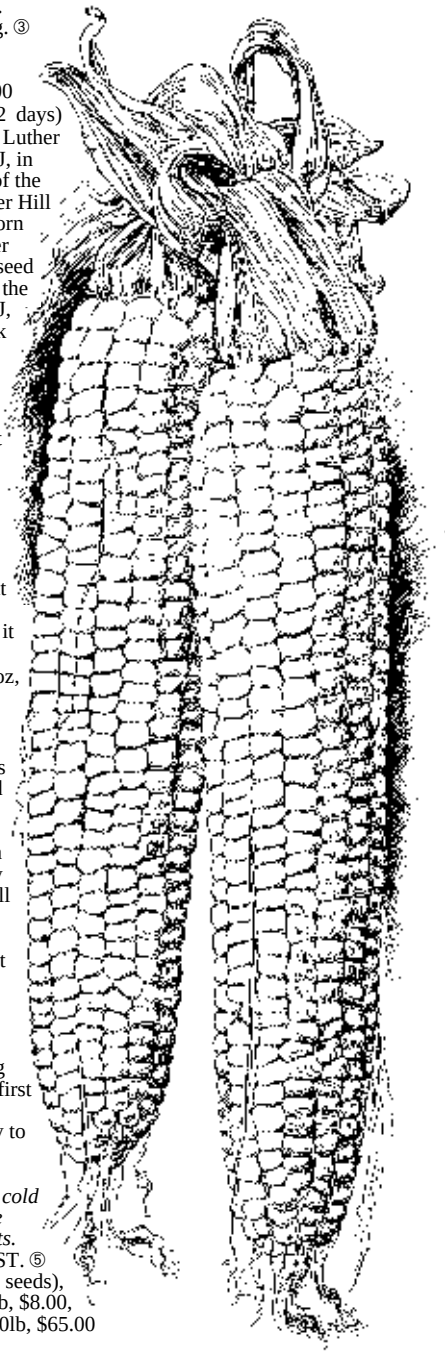
584DG Double Gem (76 days) A classy bicolor **sugary enhanced hybrid** for the all-important second-early slot, Double Gem's blocky 8" ears fill well to the tip for a lot of good eating. Rarely have we encountered such sweetness and tenderness in this early a corn. Good cold soil emergence. Received high ratings for ease-of-picking at the University of Maine's 1999 trials at Highmoor Farm. Tolerant to SM, resistant to NCLB. Short crop in 2003. ③ **A**=2oz, $1.40 (~355 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00. *Not available in larger sizes.*

602LL Lancelot (82 days) We took notice when Loon Song Farm trialers rated this midseason bicolor **sugary enhanced hybrid** as better than Burgundy Delight one year. Lancelot has a lot going for it besides its sweet, tender kernels. It snaps easily, is very drought tolerant, and shows good tip fill. Tolerant to ST. ③ **A**=2oz, $1.40 (~375 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $36.00, **E**=10lb, $65.00

606BR Bravado (83 days) Wow! 8" of bicolor bliss in every delectable ear. Bravado is hot, delivering melt-in-your mouth sweetness and substance, too. These qualities come from a **synergistic cross between supersweet and sugary enhanced hybrid** parents. These plump 18-row ears are no help in curing my sugary corn addiction. Must be isolated from supersweet varieties. ② **A**=2oz, $2.00 (~335 seeds), **B**=8oz, $7.00, **C**=1lb, $12.00, **D**=5lb, $60.00, **E**=10lb, $115.00

WHITE SWEET CORN

626SS Spring Snow (73 days) **Sugary enhanced hybrid**. At last an early white sweet corn with a real corny flavor! Expect 7½" ears of excellent quality for early in the season. Tolerant to ST, resists lodging. ③ **A**=2oz, $1.40 (~290 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00, **D**=5lb, $38.00, **E**=10lb, $70.00



636LO Luther Hill OG (82 days) Developed by, and named for Luther Hill of Andover Township, NJ, in 1902, and one of the parents of the venerable Silver Queen, Luther Hill was the most popular sweet corn in parts of New Jersey for over fifty years. According to one seed saver, people used to come to the Cochran House in Newton, NJ, from as far away as New York City to be served this white corn. The sweetest **open-pollinated** corn I've ever tasted, Luther makes multiple 3-6" miniature ears on modest 4' stalks. Because the suckers often yield good ears, each plant, if spaced widely, can make up to four ears. Not a good choice if you demand those 8-inch ears depicted in the glossy catalogs, but a great way to introduce yourself to old-timey sweet corn the way it was before the hybrids took over. OCIA-certified. ① **A**=2oz, $1.80 (~255 seeds), **B**=8oz, $5.50, **C**=1lb, $9.00

658SQ Silver Queen (96 days) White **hybrid** which has long set the standard for late-maturing sweet corn. Large handsome ears, with glossy white creamy sweet kernels that fill to the very tips. Although risky in short-season areas, it ripens for us most years a few days before Common Ground Fair in late September, sneaking in just ahead of our first killing frost. I can't think of a better way to end the corn season. *Caution: said to germinate poorly in cold soil, though we have heard few complaints.* Tolerant to NCLB, ST. ⑤ **A**=2oz, $1.40 (~255 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $36.00, **E**=10lb, $65.00

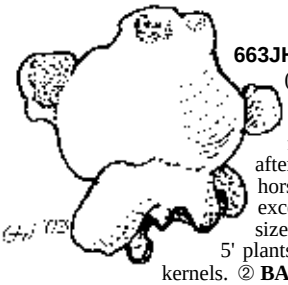
SWEET CORN SELECTIONS AT A GLANCE

variety	item #	days	color	type*	avg height	ear length	# rows
Spring Treat	508	71	yellow	se-se	72"	7-8"	14
Ashworth	516	72	yellow	op	60"	6-7"	12
Sugar Buns	524	74	yellow	se-se	76"	6-7"	14
For Heaven's Sake	536	77	yellow	se-se	84"	8"	16-18
Bodacious	540	77	yellow	se-se	87"	8"	18
Kandy Plus	546	78	yellow	se-se	84"	8.5"	16-20
Tuxedo	556	80	yellow	se-se	90"	8-9"	16
Golden Bantam	559	85	yellow	op	66"	7"	8
Incredible	560	85	yellow	se-se	90"	8"	18
Kandy Korn	564	89	yellow	se	102"	8"	16
Fleet	577	72	bicolor	se-se	60"	7"	14
Double Gem	584	76	bicolor	se-se	75"	8"	16-18
Lancelot	602	82	bicolor	se-se	84"	7-8"	16-18
Bravado	606	83	bicolor	se-sh2	72"	8"	18
Spring Snow	626	73	white	se-se	66"	7-8"	12-16
Luther Hill	636	82	white	op	48"	5"	12
Silver Queen	658	96	white	ns	102"	8"	14-16

*genetic type
op = open-pollinated
ns = normal sugary
se = heterozygous sugary enhanced
se-se = homozygous sugary enhanced
sh2 = supersweet

If you plant corns of different color kernels next to each other, you will get some cross-pollination. Separate by 8-10 rows' distance to maintain color purity.

POPCORN See also #5940.



663JH Japanese Hulless Popcorn (72 days) Use this **open-pollinated** variety to raise miniature corn for Chinese cuisine. Harvest the fingerlike baby ears around five days after silks appear. They are delicious in hors d'oeuvres and stir-fries and make excellent pickles. Or allow to grow to full size for popcorn which will take 110 days. The 5' plants each bear three to six 4" ears with white kernels. ② **BACK! A**=2oz, $1.20 (~800 seeds), **B**=8oz, $4.50, **C**=1lb, $7.50, **D**=5lb, $32.00, **E**=10lb, $60.00

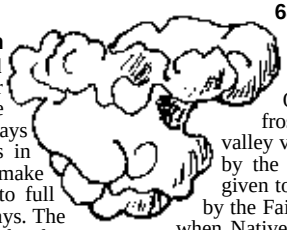
666ST Strawberry (95 days) **Open-pollinated** heirloom. Highly decorative maroon 2" ears which taper slightly to the tip. Colorful kernels pop into a white popcorn. ② **A**=2oz, $1.20 (~800 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00, **D**=5lb, $32.00, **E**=10lb, $60.00

678RW Robust White Popcorn (95 days) **F-1 hybrid.** Also known as 21-82W. An early white hull-less popcorn with the same great eating quality as White Cloud—crisp and tender, light and flaky—but with a better yield of larger kernels on 7" ears. The 6' plants have the stalk strength to survive September storms intact. Garland, ME plant breeder extraordinaire Robert Schick, aka Relentless, calls them "perfectly shaped towers of power." He found them impervious to corn worms and borers plus skunks and porcupines, perhaps because the ears were "about 4' above ground zero." ② **A**=2oz, $1.30 (~580 seeds), **B**=8oz, $4.50, **C**=1lb, $7.50, **D**=5lb, $35.00, **E**=10lb, $65.00

ORNAMENTAL & DRY FIELD CORN

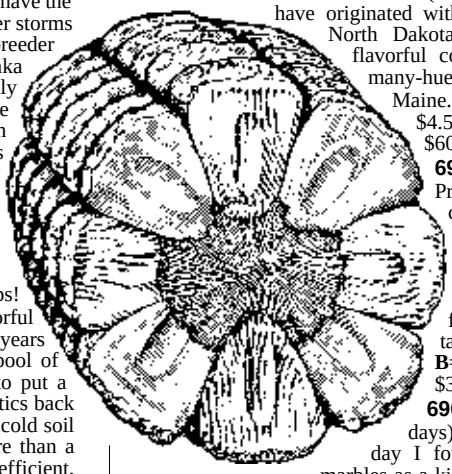
All open-pollinated.

680PO Painted Mountain OG (85 days) Small plant, long cobs! We are thrilled to offer Painted Mountain, the earliest maturing colorful corn in existence. Dave Christensen, the breeder, has spent 30 years developing it in the mountains of Montana from a diverse gene pool of about 80 strains of native corns. He has succeeded in his goal "to put a broad spectrum of stress-hardy, earth-friendly, people-friendly genetics back in the hands of the people." Painted Mountain tolerates high winds, cold soil and cold nights, as well as hot Julys and drought conditions. More than a week earlier than Mandan Bride, the short 5' plants are highly efficient, producing thin 8-rowed cobs, generally 6-7" long. Contains vivid golds, oranges, reds and purples, about every shade of color known to corn. In addition to its ornamental uses, it is easily ground into flour, boiled into hominy, parched or even eaten fresh on the cob. A June 9, 1999, Shooting Star Farm planting was drying on the stalk by early September; an earlier planting in a good year would dry in August even in our cold spot. Painted Mountain will grow where no other corns can. Christensen recommends over planting, then thinning to 11" apart. MT-certified. ① **A**=2oz, $2.00 (~175 seeds), **B**=8oz, $10.00, **C**=1lb, $19.00, **D**=5lb, $85.00, **E**=10lb, $160.00



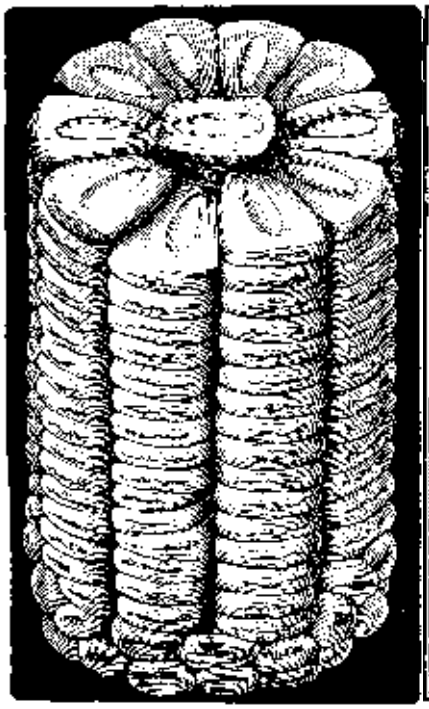
682CO Abenaki Calais Flint OG (88 days) Formerly known as Roy's Calais Flint. The frigid summer of 1816 ("Eighteen hundred and froze to death") drove thousands of New England settlers to pull up stakes and head west to Ohio. Snow fell in the second week of June, and a killing frost on July 9 froze birds in their nests. In the remote northern valley village of Calais, VT, only one kind of corn survived. Grown by the local Abenaki Native American tribe for generations and given to settlers, it was the sole sustenance for many families. Kept by the Fair family since that time, the corn was saved from extinction when Native Americans in this generation rescued a 10-year-old jar of seed in Roy Fair's basement, grew it out and shared it again with local farmers. Later, Calais farmers gave some of the seed to Vermont seedsman Tom Stearns who shared it with us. Stearns calls it "the most exciting heirloom that I've ever been handed. Incredibly early and able to grow well under cold conditions, it has made mature and dry ears in as few as 80 days." Most of the 7-9" ears are golden yellow but a minority are a beautiful dark maroon. The true strain has 8 rows of kernels, but you will find occasional 10 and 12 row ears which you should rogue out if you are saving seed. Makes great Johnny Cakes or cornmeal. NOFA-VT-certified. ① **A**=2oz, $1.30 (~225 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00, **D**=5lb, $34.00, **E**=10lb, $65.00

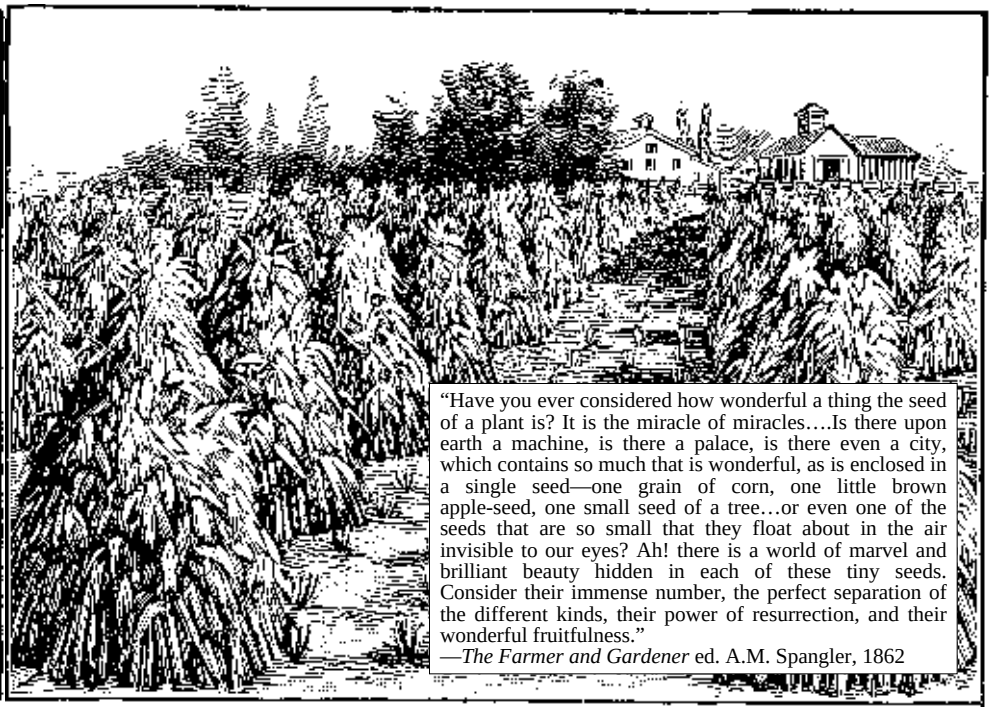
688MB Mandan Bride ECO (98 days) A colorful flour corn believed to have originated with the Mandan tribe of Minnesota and North Dakota. Easy-to-grind starchy kernels make flavorful corn meal or grits. 5-6' plants produce many-hued 7-8" decorative ears. Seed grown in Maine. ① **A**=2oz, $1.20 (~225 seeds), **B**=8oz, $4.50, **C**=1lb, $7.50, **D**=5lb, $35.00, **E**=10lb, $60.00



692HB Hopi Blue Flour (100 days) Precursors of this strain have been raised continuously for 800 years on mesas of northern Arizona. Used by the Hopis to make ceremonial *piki* bread. Tall 9' plants produce large 8-10" ears with beautiful deep kernels easy to grind into flour. Very drought-tolerant, with a long taproot. ② **A**=2oz, $1.20 (~205 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $35.00, **E**=10lb, $65.00

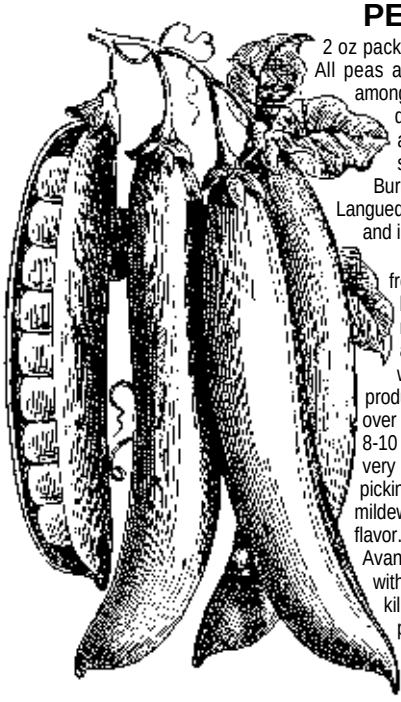
696KL Kalidia Ornamental Flint (110 days) The day we evaluated Kalidia was the day I found my marbles again. If you played marbles as a kid (and it was a passion in rural Vermont in the early fifties when I was growing up) you'll remember that the agates with the delicate patterns were the most prized of all. You'll treasure the exquisite markings on these multi-hued kernels which include a patterned buff I've never seen on a corn before. This extraordinary ornamental corn is big in every way, from its gorgeous thick 8-10" ears to its imposing 9' stalks. By serendipity, I planted it alongside Navajo Blue and got some sublime crossed color and pattern combinations. You could try the same with Hopi Blue. *Caution: Late-maturing for northernmost areas.* ② **A**=2oz, $1.50 (~180 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $40.00, **E**=10lb, $75.00





"Have you ever considered how wonderful a thing the seed of a plant is? It is the miracle of miracles….Is there upon earth a machine, is there a palace, is there even a city, which contains so much that is wonderful, as is enclosed in a single seed—one grain of corn, one little brown apple-seed, one small seed of a tree…or even one of the seeds that are so small that they float about in the air invisible to our eyes? Ah! there is a world of marvel and brilliant beauty hidden in each of these tiny seeds. Consider their immense number, the perfect separation of the different kinds, their power of resurrection, and their wonderful fruitfulness."
—*The Farmer and Gardener* ed. A.M. Spangler, 1862

PEAS *Pisum sativum*



2 oz packet sows 30 ft, 1 lb. sows 240 ft. All peas are open-pollinated. Peas were among the earliest crops to be domesticated, perhaps as long as 10,000 years ago. Very old seeds have been found near the Burmese border of Thailand, in the Languedoc region of southern France, and in Switzerland.

Young plants very hardy but frost stops production at the blossom or pod stage. Like cool moist weather; dislike heat. Sow as early as ground can be worked for best yields. All peas produce more when staked; varieties over 2½' must be supported. Plant 8-10 seeds/ft. in rows 3' apart (5' if very tall varieties). Early morning picking retards spread of powdery mildew disease and ensures best flavor. The August, 2003 edition of the Avant Gardener suggests milk diluted with water sprayed twice weekly kills the fungus and stimulates the plants' protective systems. If you love peas as much as we do, you may want to try for a fall crop. Timing is crucial, as peas ripen slowly in the cool of September, and frost will halt production. We recommend 1st week July planting for fall crop in central Maine. Warmer areas try mid-July.

We have not been happy with the selection criteria of Syngenta, who controls most of the world's pea seed production. Most of the new AFILA (Lacy Lady type foliage) and heavily dwarfed varieties they emphasize don't deliver enough flavor to be worth growing. We are continuing efforts to bring back several outstanding earlier varieties which have been largely lost to the trade.

SHELL PEAS

710CL Coral (53 days) PVP. Makes harvesting peas before July 4th a cinch, even in cold pockets. The best quality early pea we've yet found, and second only to Green Arrow in popularity. In 2001 serious production from our Apr. 26 sowing began on June 26 and was completed by July 2. In 2003 our cold wet spring pushed planting back to May, but we still had peas by July 2. Short vines barely surpass 2' and tend to set earliest pods low. 6.94 peas per pod in 2003, 6.16 peas per pod in 2001. PVP. Resists F1, PLR. *Seed in short supply; order early!* ⑤ **A**=2oz, $1.00 (~235 seeds), **B**=8oz, $3.50, **C**=1lb, $5.00. *Not available in larger sizes.*

732FR Early Frosty (60 days) Outstanding quality and sweetness, definitely our preferred variety for freezing. At its best before the pods are completely filled. Tricky to pick, but one of the easiest to shell. Holds quality for a long time after picking. Vines grow up to 3'. Susceptible to powdery mildew; performs best in early sowings. Peak production in 2001 was July 2-8 from Apr. 26 planting. This year our May 5 planting was heavily productive from July 9-15. Yields are always dependable, occasionally spectacular, topping 40 lb. per 100 row feet in 1992 and 1999 and besting 30 lb. dependably. 5.82 peas per pod in 2001, around 6 per pod most years. Resistant to F and W. ③ **A**=2oz, 90¢ (~140 seeds), **B**=8oz, $3.00, **C**=1lb, $4.50, **D**=5lb, $15.00, **E**=10lb, $25.00, **K**=25lb, $45.00, **L**=50lb, $85.00

740NF Northfield (62 days) The first AFILA-type (Lacy Lady) pea to merit inclusion in our catalog. Won our hearts before we even tasted the berries because its intricate lacy foliage made a breathtaking background. Those intertwining tendrils allow Northfield to stand by itself without additional support even though the vines grow 3½', Some folks also consider the young tendrils a great delicacy, although others find them unpalatable. Make what you will of the Southeast Asian expression, "Tendrils tie your tongue." As for the prolific pods, the lack of leaf mass makes them easier to see. Peas come 6-10 to a pod, sweet and delicious. Every bit as good as Early Frosty, according to trialer Donna Dyrek. Dyrek's May 9 planting ripened July 10. CR had an early July planting ripen at the end of August. These did not hold as well as the spring planting. At last a quality pea with fine flavor that does not need to be staked. Resistant to F1,2, PM, PEMV tolerant. PVP. **NEW!** ⑤ **A**=2oz, $1.00, **B**=8oz, $3.50, **C**=1lb, $5.00, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $60.00, **L**=50lb, $110.00

748LM Little Marvel (63 days) Old-timey home garden favorite bears tightly packed cylindrical pods on 18" vines. Very sweet. Surprising yields for such a dwarf plant. From England in 1900, known there as Sutton's Early Marvel. Introduced to the U.S. in 1908. A pound of seed sold for a quarter in 1932 from Gray's Seed and Implement Store catalog, Sanford, ME. ③ **A**=2oz, 90¢ (~250 seeds), **B**=8oz, $3.00, **C**=1lb, $4.50, **D**=5lb, $15.00, **E**=10lb, $25.00, **K**=25lb, $45.00, **L**=50lb, $85.00

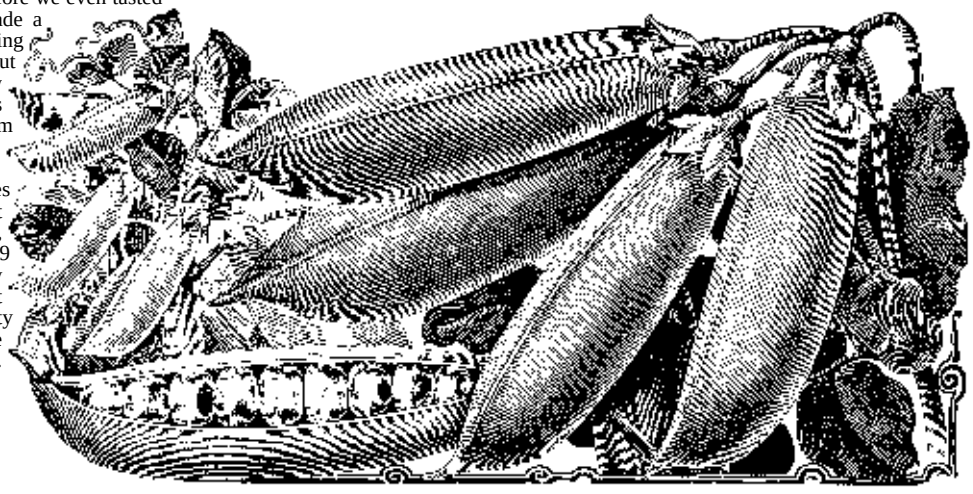
757DL Dual (64 days) In the process of freezing 300 lb. of peas each year for more than a decade, we've shelled something like 200,000 pods. Until 2001, we'd never found one with more than 11 peas. Dual produced our first 12-spot and the finding was not an accident. In setting an all-time trials record with 9.12 peas per pod, Dual was a model of consistency, delivering 7-11 peas in virtually every pod. Not surprisingly, Dual's over-all yield was very high, too. We got 14 lb. from a 30' row, which projects to almost 50 lb. per 100' row, close to another record. The waxy pods run 3-4" on 30" vines. Though not as sweet as Lincoln, their flavor is nearly on a par with Frosty. As the name indicates, pods set double. An excellent freezer and a good variety for commerce. ⑤ **A**=2oz, $1.20 (~210 seeds), **B**=8oz, $4.00, **C**=1lb, $7.50, **D**=5lb, $25.00, **E**=10lb, $40.00, **K**=25lb, $85.00, **L**=50lb, $160.00

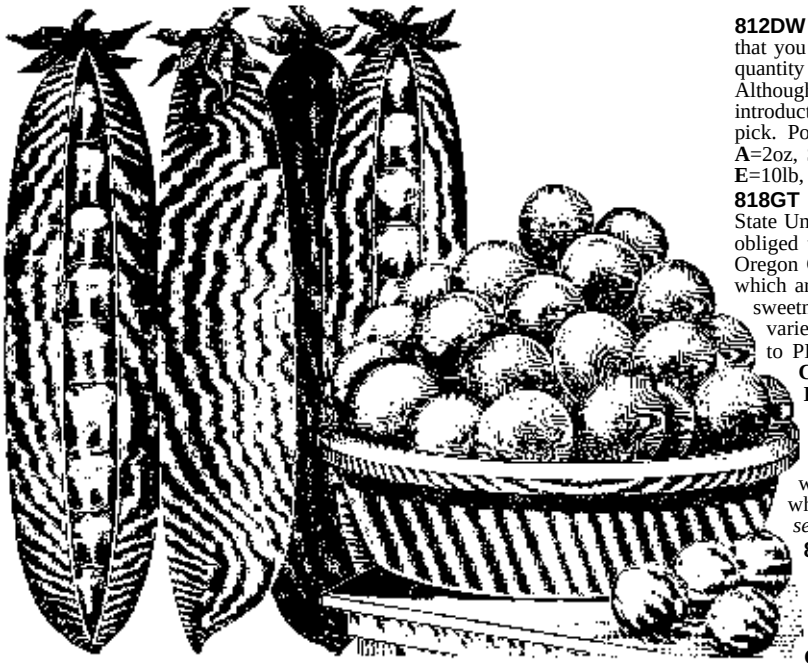
760GA Green Arrow (65 days) Arrow is right on the mark for commercial growers who prefer it to all others. We sell close to three quarters of a ton each year. Sets the standard for midseason varieties. Long pods with up to 10 peas per pod on vines up to 3'. Very heavy yielding, was especially vigorous in 1999, producing better than 37 lb. per 100 row feet. Easy to pick because pods tend to set in pairs at the top. 8.08 peas per pod in 1999. Tolerant to F, DM, CTV, W. ③④ **A**=2oz, 90¢ (~270 seeds), **B**=8oz, $3.00, **C**=1lb, $4.50, **D**=5lb, $15.00, **E**=10lb, $25.00, **K**=25lb, $45.00, **L**=50lb, $85.00

772MO Miragreen OG (68 days) A Ferry-Morse variety once offered by the J. W. Jung Seed Company of Randolph, WI, Miragreen boasts the darkest-green pods we've ever seen, a rich color matched only by the flavor of the peas themselves. As a freezer pea it has no equal. As if this weren't enough, Miragreen has some resistance to heat and drought and may be able to cope with our increasingly warm Julys. And it is a generous yielder, always scoring high in productivity, even setting a farm record of 8.7 peas per pod in 1997 that has since been eclipsed only by Dual. Because the vines grow to 4' Miragreen requires staking. A pea every gardener should try. We have a verified supply of 1,000 lb. at 88% germination so you won't be disappointed. CCOF-certified. ① **A**=2oz, $1.20, **B**=8oz, $4.00, **C**=1lb, $7.50, **D**=5lb, $30.00, **E**=10lb, $50.00, **K**=25lb, $120.00

781LC Lincoln (70 days) Apparently originated in England and first offered in America by J. M. Thorburn in 1908, the year before the first Lincoln penny. This old favorite rates as the sweetest pea and the best for fresh garden grazing. Vines up to 3' bear 3-3½" slender curved pods in midseason. Consistently 6-8 peas per pod; 7.04 average in 2000, 6.46 in 2001. Lincoln loves cool Julys, achieving phenomenally high yields of 38 pounds per 100 row feet in optimal conditions. Expect lower production if July is hot and dry. Peak harvest from May 5 planting was July 12-22 in 2003. Susceptible to powdery mildew. Tolerant to W. ③ **A**=2oz, 90¢ (~210 seeds), **B**=8oz, $3.00, **C**=1lb, $4.50, **D**=5lb, $15.00, **E**=10lb, $25.00, **K**=25lb, $45.00, **L**=50lb, $85.00

788FO Mayfair Pea OG (72 days) Mayfair never deserved to be dropped from the trade so it is with great pleasure that we have reintroduced it. Mayfair bears prolific yields of double pods atop 40" vines. Large 4" pods frequently have 8 to 10 peas with rich sweet buttery flavor. One customer says "I've been growing them from saved seed for maybe 10 years, and they are far-and-away the BEST spring peas I've ever grown (and I've been gardening since the '60s)." Developed at the New York State Agricultural Experiment Station by world pea expert Dr. Gerald A. Marx (see our 1999 catalog for a profile). Dr. Marx assembled the largest pea germplasm collection in the world and Mayfair may have been the best of them all. Tolerant of heat and powdery mildew. OCIA-certified. We have a verified crop so there will be no disappointments. ① **A**=2oz, $1.20 (~225 seeds), **B**=8oz, $4.00, **C**=1lb, $7.50, **D**=5lb, $32.00, **E**=10lb, $55.00





792TT Alderman or **Tall Telephone** (75 days) "Of all tall main crop peas Alderman is the finest and most desirable for home garden and for the market."—From John A. Salzer's 1915 seed catalog. True then, still true today. Recent All-America winner Mr. Big got the hype, but failed to supplant this old-time favorite as the #1 tall pea. In our trial, Alderman topped Big in peas per pod, 7.65-6.94, in yield 38-28 lb. per 100 row feet, and in flavor. Alderman boasts vines of 5-6' or more under very fertile conditions, needs strong staking and frequent picking. Introduced by noted pea breeder Thomas Laxton around 1891 and first sold by Burpee in 1901. Alderman and Tall Telephone are considered synonymous today, although early 20th century catalogs listed each separately. In his 1928 classic *Peas of New York*, U. P. Hedrick says both derived from Telegraph, a variety originated in 1877. Resistant to W. ③ **A**=2oz, 90¢ (~190 seeds), **B**=8oz, $3.00, **C**=1lb, $4.50, **D**=5lb, $15.00, **E**=10lb, $25.00, **K**=25lb, $45.00, **L**=50lb, $85.00

SOUP PEAS

795CJ Blue Pod Capucijners ECO (85 days) Delicious brown-grey soup peas. Their name derives from the markings on the peas said to look like the cowls of Capuchin friars, and is pronounced cap-you-*say*-ner. Even if you don't want the peas, the plants are worth growing as ornamentals for their violet, red and pink flowers and their spectacular purple pods. 6' vines must be staked. Productive, beautiful and easy to harvest. However, the seed coats are tough and they take a long time to cook. We advise treating like baking beans. Heat soak overnight. Sustainably-grown seed. ① **A**=2oz, $2.00, **B**=8oz, $6.00. *Not available in larger sizes.*

796VO Amplissimo Viktoria OG (90 days) *We regret crop failure. Not available in 2004.*

INOCULANT

Can also be ordered from the Supplies section. Some other inoculants are available only in the Supplies section, p. 103.

797DB Dry Bean Inoculant for dry beans. Treats 100 lb. **A**=$5.00

798LG Legume Inoculant for peas and beans, size A treats 8 lb, size B treats 50 lb. **A**=$3.10, **B**=$5.00

799SB Soybean Inoculant for soybeans. Treats 60 lb. **A**=$5.00

EDIBLE PODDED PEAS

Culture same as shell peas. Snow peas should be harvested before pods fill out. Snap peas taste sweetest when completely filled. A common mistake is to pick snaps too soon. Young snap plants may be harvested for greens, good in mesclun or lightly cooked.

SNOW PEAS

808DG Dwarf Grey Sugar (59 days) If you're looking for a dwarf snow pea with purple flowers, this old standby dating prior to 1773 is the best we know. "Dwarf" refers both to its 30" vines and to its elegant thin 2½-3" pods of classic appearance which make great stir-fries. Harvest often for best production. Resistant to F1. ③ **A**=2oz, $1.00 (~300 seeds), **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $28.00, **K**=25lb, $60.00, **L**=50lb, $110.00

812DW Dwarf White Sugar (59 days) "I remember reading somewhere that you lose taste with dwarfs—not so with Dwarf White Sugar—and the quantity is unbelievable," wrote Susan Ziobran of Copake Falls, NY. Although some strains go back to the 1800s, ours is the 1941 Agway introduction. 3' vines produce abundant early yields at top of plants. Easy to pick. Pods small (2-2½") sweet and tender. Susceptible to yellows. ② **A**=2oz, $1.20 (~270 seeds), **B**=8oz, $4.00, **C**=1lb, $7.00, **D**=5lb, $20.00, **E**=10lb, $35.00, **K**=25lb, $75.00, **L**=50lb, $120.00

818GT Oregon Giant (60 days) Bred by Dr. James Baggett at Oregon State University, Giant has been our most popular snow pea since we were obliged to drop Blizzard in 1993. A giant selection from a giant breeder, Oregon Giant is distinguished for its sweet rich green fat wide 4-5" pods, which are good for stir fries, steaming and eating out of hand. Will retain sweetness so they may be picked a little plumper than the thin-podded varieties. We recommend staking the intermediate 3-4' vines. Resistant to PEMV, PM and F1. ③ **A**=2oz, $1.00 (~170 seeds), **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $28.00, **K**=25lb, $50.00, **L**=50lb, $100.00

819BL Blizzard (61 days) Coming back soon to a seed catalog near you, the best dwarf snow pea! It has been in limbo for a dozen years since Novartis, the patent holder, discontinued production but was unwilling to allow others to grow it. The patent runs out in 2005 when we intend to grow it for a 2006 reintroduction. *Not available this season.*

826SP Oregon Sugar Pod II (62 days) Short-vined snow pea from Oregon State University. Pods 4" long, vines 2-2½'. Difficult to pick because fruit tends to set within foliage. Tolerant to PM, resistant to W, tolerant to PEMV. Good choice in sandy soils or under dry conditions. ③ **A**=2oz, $1.00 (~210 seeds), **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $28.00, **K**=25lb, $60.00, **L**=50lb, $110.00

842MM Mammoth Melting Sugar (72 days) The standard climbing snow pea. Vines grow 5-7' but can reach 10' if you follow M. Schultz' suggestion to lay coffee grounds in a 2" mulch around plants but not touching stems. Stimulates growth and discourages bugs, she says. Very heavy yields of 4-5" pods. Continues to produce if kept picked provided powdery mildew does not strike. Very sweet eaten raw as well as sautéed. Heirloom predates 1906. ③ **A**=2oz, $1.00 (~230 seeds), **B**=8oz, $3.00, **C**=1lb, $5.00, **D**=5lb, $15.00, **E**=10lb, $28.00, **K**=25lb, $60.00, **L**=50lb, $110.00

846EO Osaya Endo OG (72 days) *Crop failure; not available in 2004. We hope to have it back in 2005.*

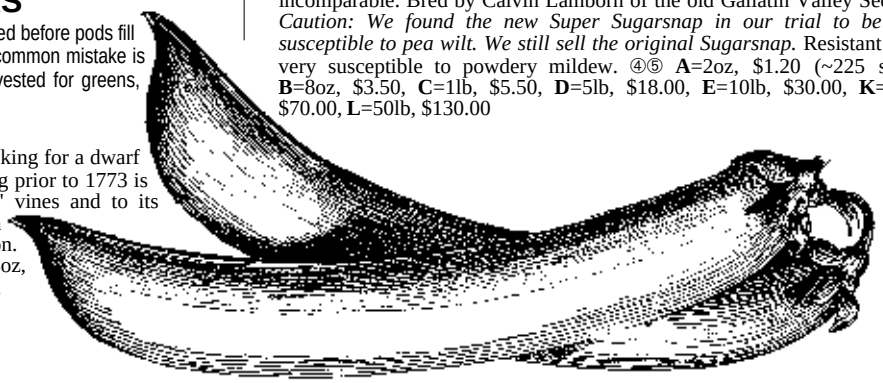
SNAP PEAS

882SU Sugar Ann (58 days) Last year we sold more than 1200 lb. of this 1983 Silver All-America winner from sugarsnap breeders Gallatin Valley. Dwarf 2' vines. The earliest snap pea, ripening here around June 20. Very good quality, sweetest of the dwarf snap peas. Not as heavy-yielding as tall Sugarsnap. Use to start the season. Resistant to W. ③ **A**=2oz, $1.20 (~235 seeds), **B**=8oz, $3.50, **C**=1lb, $5.80, **D**=5lb, $18.00, **E**=10lb, $32.00, **K**=25lb, $75.00, **L**=50lb, $135.00

884SL Sugar Lode ECO (65 days) The first success of our pea growing program. We named Sugar Lode for its tremendous yields borne on 3' vines. Although the pods are slow to sweeten, they develop a good pea flavor which becomes more sugary as they fill. Can be used for the late crop because they stand well in heat. Sustainably grown seed, transitional to organic. ① **A**=2oz, $1.50 (~235 seeds), **B**=8oz, $5.00, **C**=1lb, $9.00, **D**=5lb, $35.00, **E**=10lb, $55.00. *Not available in larger sizes.*

888CC Cascadia (65 days) It's a snap to grow Cascadia. Ripening about a week later than Sugar Ann on slightly taller (2½') vines, Cascadia offers a rich harvest of 3" pods, longer and darker green than Ann's and equally sweet. Developed by Dr. James Baggett at Oregon State U. Like Sugar Lode, a high yielder. Tolerant to PM and the first pea bred to be resistant to PEMV. ③ **A**=2oz, $1.50 (~210 seeds), **B**=8oz, $5.00, **C**=1lb, $8.00, **D**=5lb, $25.00, **E**=10lb, $40.00, **K**=25lb, $90.00

892NP Sugarsnap (68 days) Won the coveted AAS Gold Medal in 1979, our first year. Later, was voted the #1 all-time AAS. One of the very best raw treats in the garden, far tastier than the dwarf varieties, although more work to grow. Tall Sugarsnap vines grow 5-7' and need strong stakes. Pods reach superb sweetness only when completely filled. Then they are incomparable. Bred by Calvin Lamborn of the old Gallatin Valley Seed Co. *Caution: We found the new Super Sugarsnap in our trial to be more susceptible to pea wilt. We still sell the original Sugarsnap.* Resistant to W, very susceptible to powdery mildew. ④⑤ **A**=2oz, $1.20 (~225 seeds), **B**=8oz, $3.50, **C**=1lb, $5.50, **D**=5lb, $18.00, **E**=10lb, $30.00, **K**=25lb, $70.00, **L**=50lb, $130.00



You Can Vine-Ripen Melons In Maine: Here's How

Melons are a tender crop with high nitrogen requirements. They love heat, cannot stand frost, and can be damaged by night temperatures below 40˚. They require some extra fussing, but oh! are the results ever worthwhile!

✺ Note days to maturity and select varieties that will ripen in your climate. Sweetie #6, Earliqueen, Sugar Bowl, New Hampshire Golden Midget and Yellow Doll are surest bets.

✺ Start indoors in early May (later if the spring is slow to warm) in peat pots, 2 or 3 seeds to a pot. Melons resent transplanting but will take if their roots are not disturbed.

✺ Prepare hills in advance with liberal amounts of well-rotted manure or compost. Don't place melons next to vigorous crawling plants like cucumbers, gourds or winter squash. Pollen from adjacent cucumber flowers can cause melons to be bitter.

✺ A cold start can permanently stunt growth, so wait for a warm spell after all danger of frost to transplant. This will usually occur between Jun. 1 and Jun. 20. Water heavily and, if soil is dry, place a temporary hay mulch around plants until a soaking rain comes.

✺ Cover plants with floating row covers, not allowing covers to touch plants. Use hoops to avoid abrasion. Melons are much more sensitive than squashes

✺ Use black or clear plastic mulch between plants.

✺ Use a foliar feeding program to speed ripening.

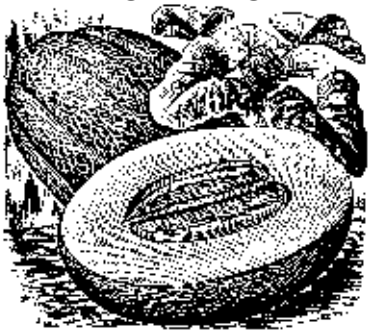
✺ Remove row covers before buds open. Replace them when you don't desire any more fruit to set.

✺ To reduce rot loss, rotate ripening melons occasionally. To reduce mouse damage, place ripening melons on bricks.

✺ Inspect your patch daily at ripening time. Check fruits for aroma and color and pull gently on those that appear to be ripe. They are ripe if the pressure causes them to slip from the vine. Charentais melons should be harvested just before they slip when they exhibit color change and exude aroma. For watermelons, thumping should produce a low, hollow sound. Spread thumb and forefinger and press hard on fruit. If you feel any give, watermelon is ripe.

✺ Enjoy an incomparable taste treat!

OPEN-POLLINATED MELONS



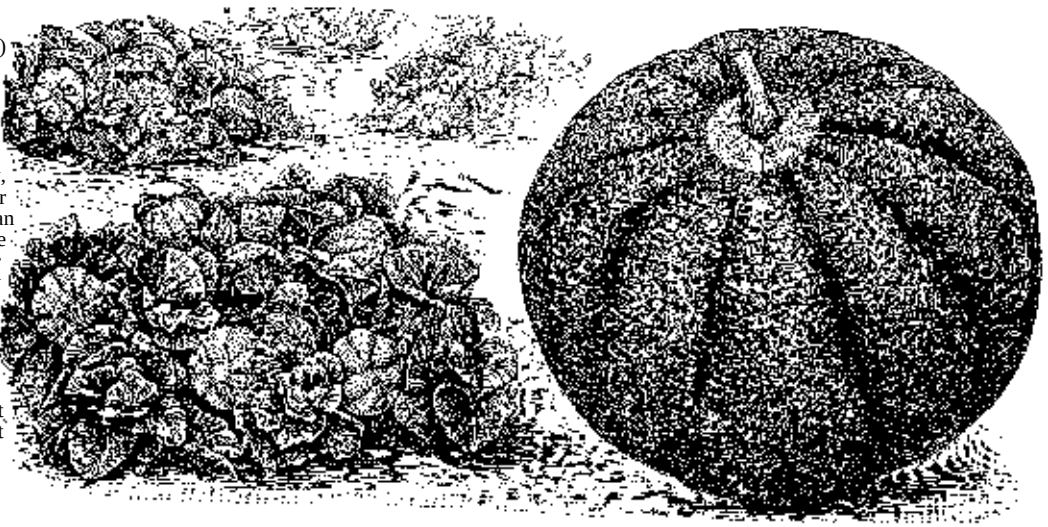
Fascinated by heritage melons? Amy Goldman's Melons for the Passionate Grower (ISBN 1--57965-213-1), a mouth-watering journey through her 100 favorite with seed sources where available, is an indispensable identification and cultural aide in trials work. Melons are native to Africa. The name melon comes from the Melothria tribe. Goldman says we routinely discard the most nourishing part of the melon: the seeds. Watermelon seeds have been an important part of the diet of African and Chinese people.

Cantaloupe, muskmelon etc. 1 oz=about 960 seeds. Watermelon 1 oz=about 670 seeds. Days to maturity are from date of transplanting. Melons can be quite productive given decent fertility and our current warming trend. In our 2002 patch (700 sq. ft.), we vine-ripened more than 130 muskmelons and cantaloupes and 25 watermelons without black plastic, foliar feeds or irrigation! Total production exceeded 350 lb.

Our extensive observation plots focus on rediscovering forgotten open-pollinated varieties with distinctive flavor and adapability to our climate. Yes, they are out there waiting to be found! One of our most exciting discoveries came in Sept., 2002 when we cut into a large oval specimen of Pride of Wisconsin. It was so good I can still taste it! See #946 for its introduction.

MUSKMELON *Cucumis melo*

908JL Jenny Lind ECO (76 days) Named for beloved soprano Johanna Maria Lind (1820-1887), better known as Jenny Lind, the Swedish Nightingale. This heirloom melon, contemporaneous with her early career, remained very popular in the New York, New Jersey, and Philadelphia area until after her death. It was called by famed seedsman Peter Henderson in his 1902 catalog "the gem of the muskmelons, flavor unsurpassed by any." Jenny has recently enjoyed renewed popularity all over the country. Despite her sparse spindly vines, she is a prolific bearer of small, heavily netted 1 lb. fruits which may be unique among melons for having a turban on their blossom end. Her soft juicy lime-green interior flesh is so sweet that it just might make you sing. ① **A**=1/16oz, $1.00 (~68 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, D=4oz, $15.00



914GN Green Nutmeg ECO (80 days) These aromatic heavily netted melons weigh 2-3 lbs. apiece with deliciously sweet spicy lime-green flesh. Not too imposing on the outside, but a good surprise inside! If subjected to very hot weather, Green Nutmeg may develop a bitter cucumber-like taste. Heirloom dates back to the 1830s. Seed grown in Maine. ①③ **A**=1/16oz, $1.00 (~57 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50

925GG Golden Gopher ECO (85 days) Gopher is the Brandywine of heirloom melons. Heavily ribbed fruits have deep deep orange flesh of incomparable eating quality. Achieved a brix reading of 14 (14% sugar content) at the 2001 Common Ground Fair Exhibition Hall, way ahead of any other muskmelon tested. Developed by the University of Minnesota in the 1930s, saved from probable extinction by Glenn Drowns, discovered and multiplied by our trialer Jeanne Griffin and popularized by Jack Kertesz at the MOFGA alley-cropping demonstration garden, Gopher has steadily gained adherents. Called "Pop Open" melons because sometimes they split open when ripe. This tendency may have prevented commercial acceptance, but has not been widely prevalent in Kertesz' crops. Resistant to F. ① **A**=1/16oz, $1.50, **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

940DL Delicious 51 (88 days) Some consider Delicious 51 to be the best widely available open-pollinated muskmelon for cold climates. One trialer compared its flavor to that of fine sorbet. Sweet 3 lb. fruits with medium to sparse netting over distinct ribs turn yellow at maturity, may be soft when ripe. Dark orange interiors with sweet juicy aromatic flesh. Developed by Dr. Henry Munger of Cornell University in 1953. ② **A**=1/16oz, 80¢ (~43 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1lb, $13.00

943PF Prescott Fond Blanc (88 days) You'd never believe such a wrinkled bumpy warted thick-skinned puffy-looking grey-green rock melon could conceal such delicacy within! Your first intimation comes when you cut one open and spy the color contrast between layers of deep-ribbed yellow and green inner rind and the orange flesh. Suddenly your once-ugly melon looks like spumoni. Then oo-la-la! you sniff its rich bouquet and bite into the juicy melting dense savory flesh. As Anne Raver of the *New York Times* put it, "Much as the Brandywine tomato served as the front man of those luscious tender-skinned heirlooms that we almost forgot in the commercial rush for tennis-ball-tough hybrids, the…deeply furrowed Prescott…may bump Ambrosia from the canteloupe patch this summer." As Prescott's 3-5 lb. true cantaloupes ripen they develop a yellow blush, a floral redolence, and finally slip off the vine with light pressure when fully ripe. Bring them in and let them sit for a week, then enjoy! Fruits ripen variably, not all at once, vines keep producing, averaging about four melons per hill. The French know their melons and this is a venerable one, a favorite of Parisian market-gardeners for more than 150 years, listed by both Fearing Burr (1863) and Vilmorin (1885). Thanks to Jeremiath Gettle of Baker Creek Seeds for bringing this rarity across the ocean. You'll love it, warts and all! ② **A**=1/16oz, $1.50, **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

946WO Pride of Wisconsin OG (90 days) Welcome to melon nirvana, that rare moment of absolute perfection: the smooth texture and juicy refreshing sweetness that satisfies through and through with just the right delicate balance and no musky aftertaste. Good enough to have been claimed by more than one state. Two sources suggest it is synonymous with Queen of Colorado which was introduced in 1923 by the St. Louis Seed Co. Widely offered in the '40s and '50s by the likes of Burpee and Eastern States Co-operative (the forerunner of Agway). All but disappeared from the trade after the onset of hybridization, maintained by just a handful of seed savers. We welcome more information about its origins and history. Move over, Minnesota! Pride is destined to take its place alongside Golden Gopher as the best. It delivers extremely high-quality large oval salmon-fleshed 5-7 lb. fruits with coarse netting and compact seed cavities. Edible all the way to the rind. Tends to crack at the blossom end during wet seasons. Not recommended for long-distance shipping. Experience how good a melon can be with Pride. ID-certified. **NEW!** ① **A**=1/16oz, $1.60, **B**=1/4oz, $4.50, **C**=1/2oz, $7.50

WATERMELON *Citrullus lanatus*

Have trouble telling when your watermelons are ripe? According to the August 1999 issue of Growing For Market students at the University of Delaware have designed a machine for testing ripeness using the time-honored thumping principle. Their device thumps the melons, then measures the resonance of the sound. Sound frequencies between 100 and 200 Hertz correlate with the desired sugar content of 8%-12%. No word on whether the machine survived field testing. Stay tuned, maybe someday watermelon thumping machines will be as common on farms as grass edgers are in suburbia. Somehow I hope not! I like Linda Hildebrand's method the best. She cracks open melons at Food Bank Farm in Hadley, MA, until she finds that one with perfect flavor, then looks for others in the field that have similar exterior characteristics. "The best way to tell is by tasting," she says. According to the New York Times (June 15, 2003), minimelons, marketed with names such as Bambino and PureHeart are all the rage in supermarkets now, part of the trend toward ready-to-go meals. These typically weigh only 5 lbs. and are spherical with tiny white seeds. Seedless watermelons presently account for more than half of the retail market. While Fedco offers several small icebox types such as #1110 Yellow Doll, we have never carried any of the seedless types because the seed is prohibitively expensive. Amy Hessler of the Times tasted the new PureHeart, a seedless type and a traditional seeded melon and found the traditional variety clearly had the best flavor, even if it is large and inconvenient.

951GM New Hampshire Golden Midget ECO (75 days) In a University of New Hampshire Ag Bulletin "Breeding New Vegetable Varieties" dated June 1957, the legendary breeding team of Elwyn Meader and Albert Yeager tell of crossing a variety called Pumpkin Rind which turned from green to yellow-orange when ripe, with Yeager's own 1948 creation, New Hampshire Midget. Golden Midget, the resulting 1959 release, is a delightful 5 lb. miniature watermelon with a built-in ripeness indicator: the rind turns yellow. Fruity pink flesh, crisp near the rind, refreshing but not way sweet. Vines have yellow leaves, look sick but aren't, fruits are seedy but delicious. So early, anyone can grow and ripen it in August when overheated people clamor for melons. For more information on Meader and his awesome legacy of plant introductions, see our 1998 catalog. Thanks to Meader's son John for preserving this Midget and donating us trial stock. ① **A**=1/16oz, $1.50, **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

957EM Early Moonbeam ECO (78 days) Commercial seed, transitional to organic. This open-pollinated selection from Yellow Doll is one of breeder Alan Kapular's notable successes in de-hybridizing hybrids. Kapuler retained most of Doll's strengths including earliness, icebox size (5-8 lb.), sweet yellow flesh, and colorful rind of dark green stripes on a greenish-white background, while sacrificing only a scintilla of uniformity and flavor. Moonbeam is a stabilized variety so you can save your own seed. ① **A**=1/16oz, $1.00 (~35 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50

962SB Sugar Baby (80 days) The standard northern icebox watermelon grows 8-10 lb. fruits, dark green on outside and deep red on inside. Flesh quality grainier than comparable hybrids. Developed by M. Hardin of Geary, OK, in 1955, and introduced by the Woodside Seed Co. Hardin also deserves credit for sending Meader and Yeager the watermelon called Pumpkin Rind, breeding material for #**951** New Hampshire Golden Midget. ② **A**=1/16oz, 80¢ (~45 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1lb, $14.00

968CS Cream of Saskatchewan (80 days)

"Of all the cool climate melons I've grown in Oregon, Maine and Wisconsin, this takes the cake, not just sweet but real character and flavor." With his background in cucurbits, plant breeder John Navazio knows a good melon when he tastes one. He gave me my first taste more than a decade ago and I've prized these sweet juicy melons with cream-colored flesh and abundant seeds ever since. Those lucky enough to be present at the New York State Mobile Seed Cleaning Unit demonstration late on Friday afternoon at the 2002 Common Ground Fair know just how sweet and cooling this melon can be on a hot day. Round 6-10 lb. fruits are light green with dark stripes and thin brittle rind prone to split. Heirloom said to have originated in the Ukraine, brought to Saskatchewan by immigrants early in the 20th century. *Seed in short supply.* ② **A**=1/16oz, $1.50 (~30 seeds), **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

980QZ Quetzali (85 days) An outstanding open-pollinated red watermelon, sweet (tested 13.5% sugars at the Common Ground Fair) with some substance. Ripens 9-12 lb. fruits with dark-green rind splotched with lime-green sponge prints. Even more attractive on the inside where the dense pink flesh is almost seedless! This find came from, of all places, Syngenta. I didn't know they even worked with open-pollinated melons any more, but I'd love to see more from them like Quetzali. PVP. *Caution: Requires a sharp knife, strong wrist and sure stroke to cut open its dense rind.* Resists ANTH1. ⑤ **A**=1/16oz, $1.00 (~40 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50

984SW Sunsweet (85 days) Jacques Neukum of Willow Creek, CA, reports: "I am hooked on the Sunsweet watermelon and it is now my primary watermelon, outselling all others. I get smaller sized melons than you report, but frequently get four or more to a plant. I plant three or four waves and people come back all season for the crisp sweet flesh." Though it loves warm locales like California, Sunsweet is adaptable almost anywhere. Our melon trialers in central Maine have harvested two 20 lb. fruits per plant. They report it outproduces hybrid Sweet Favorite and is earlier and bigger than hybrid Sangria. We recommend this large oval open-pollinated watermelon for glorious red scrumptious sweet juicy delectable treats. Rind dark green with broken light green stripes. Resistant to ANTH and F. PVP. ⑤ **A**=1/16oz, $1.00 (~35 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50

986VO Verona OG (86 days) We found this rare large red oblong watermelon in a Seeds of Change™ listing. Considered the earliest and best-tasting of the Black Diamond types, Verona pumps out 15-20 lb. fruits with a thin but tough smooth dark green rind and attractive firm red flesh. Sweet and tasty, the best-flavored open-pollinated watermelon I've ever had. Well adapted to cool climates, has produced impressively even as far north as Starks, ME. Tolerant to ANTH, F. ID-certified. ① **A**=1/16oz, $1.60, **B**=1/4oz, $4.50, **C**=1/2oz, $7.50

990GL Orangeglo (90 days) When I profiled cucurbit expert Glenn Drowns for our 1999 catalog, he included Orangeglo in his list of favorite varieties. Like us, Drowns enjoys convincing people to try new things and Orangeglo was one of his big triumphs at farmers market. When he took them the first time, some people even refused his free samples. The next week people were were waiting in line for Orangeglo. Intrigued by the possibility of a tasty orange-fleshed open-pollinated melon, we were delighted to find Orangeglo adaptable to the Northeast and every bit as good as Drowns promised. The striped oblong melons often achieve 15 lb. Not the sweetest of our melons (brix reading was 10.75), Orangeglo nevertheless may be the most juicy and refreshing. The crisp tender bright orange flesh has an almost tropical flavor. Orangeglo brings a glow to my face every time I open one up. ① **A**=1/16oz, $1.50 (~16 seeds), **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

992MO Moon and Stars OG (100 days)

Once feared extinct, this now-famous unique watermelon became a *cause célèbre* for the Seed Savers Exchange. Released by Peter Henderson & Co. as Sun, Moon and Stars in 1926, it was popular in the '30s—in 1931 Great Northern Seed Co. extolled it for its delicious flesh as well as its distinct appearance—before fading into obscurity for almost fifty years. Kent Whealy found it again in 1981 after a four-year search and his son Aaron supplied us with our original seed stock. Because it needs a lot of heat to set fruit, it poses a challenge worthy of the Maine melon-grower's mettle. Dark green rind has beautiful yellow spots which range in size from little peas (the stars) to a silver dollar or larger (the moon). Spotted foliage, actually a product of a virus found in the breeding lines, looks unhealthy to the uninitiated. Very sweet somewhat grainy pink flesh. MOFGA- and CCOF-certified. ①③ **A**=1/16oz, $1.50 (~20 seeds), **B**=1/4oz, $4.00, **C**=1/2oz, $7.00

HYBRID MELONS

CHARENTAIS *Cucumis melo*

1014FR French Orange (80 days) How good is their tangy deep orange flesh? I mistook one for a Golden Gopher in a blind taste test. That's about as strong a compliment as I could bestow on any melon! Cross between a French Charentais melon and a sweet American cantaloupe is ready to harvest when the lightly netted 2-3 lb. fruits develop a yellow-cream blush and become aromatic. They will slip when given a tug. The first full-sized melon with Charentais parentage that usually vine-ripens in our short season without rotting. ⑤ **A**=1g, $2.00 (~22 seeds), **B**=3g, $5.00, **C**=15g, $25.00

CANTALOUPE & MUSKMELON *C. m.*

Cantaloupes are named for the papal gardens of Cantalupo, Italy, where some historians say the first cantaloupe was grown. They are smooth-skinned or lightly netted with few ridges. Some are warted. Muskmelons are usually heavily netted and deeply ribbed with larger seed cavities than cantaloupes. Both have orange flesh unless otherwise indicated. Develop highest sugar content when daytime temperatures exceed 80˚ and night temperatures are 60-75˚.

1020SW Sweetie #6 FR Cantaloupe (75 days) Even if you can't grow melons, consider Sweetie. In 2001, Janine Welsby of Wellsville, OH, stopped counting after harvesting 72 of the "luscious little melons." We got 32 fruits from one hill in 2002! Our melon trialers Jill and Peter de Bethune call this "the easiest melon in the world to grow and more productive than any other, even Chaca." Jill looks forward to copious yields of small oval 1-2 lb. fruits that are so good that it's "like eating butterscotch candy." Indeed, Sweetie is called the Butterscotch Melon because it ripens to a swirl of orange and green flesh with complex rich fruity flavors that hold deep into the smooth greenish white rind. Sweetie is ripe when it slips off the stem. It keeps well; flavor actually improves with storage. "Our customers love 'em," says Jill. You will, too. Prone to split after excessive rains. ④ **A**=.5g, $2.50 (~49 seeds), **B**=1g, $4.50, **C**=3g, $12.50, **D**=15g, $60.00

1022SB Sugar Bowl Muskmelon (77 days) In the Sugar Bowl of muskmelons, this one could win the national championship. It was judged to have the best overall fruit quality, and the highest sugar content (12.78 brix rating) among ten varieties in the 2002 University of Maine Cooperative Extension trial at Highmoor Farm. It has everything going for it: impressive density, a beautiful bowl shape with small cavity, the same early ripening as Earliqueen with better uniformity and productivity, a great texture and a full-bodied sweet flavor right down to the rind. Our melon trialers vastly prefer it to Earliqueen. It was the best-looking melon in their trials and the only one to vine-ripen in our frigid non-summer of 2000. You won't fumble the ball with Sugar Bowl. ⑤ **A**=1g, $3.00 (~27 seeds), **B**=3g, $8.00, **C**=15g, $40.00

1024EQ Earliqueen Muskmelon (77 days) Developed by Dr. Brent Loy at UNH, Earliqueen is a reliable early producer of 2-3 lb. oval fruits with small cavities and uniformly high quality. A good melon to start the season, its orange flesh is remarkably sweet for such a precocious ripener. Utterly dependable, perfect for those who have trouble getting vine-ripe fruit. Had the highest early yield in the 2002 Highmoor Farm trial, with a respectable brix rating of 11.46. Picks out early; commercial growers will want to follow with a succession planting of a main-crop melon. ② **A**=1g, $1.50 (~47 seeds), **B**=3g, $4.00, **C**=15g, $14.00

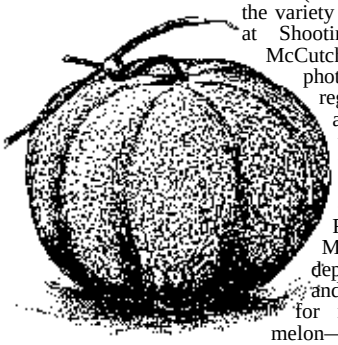
1030PP Passport Cantaloupe (77 days) A delicious green-fleshed cantaloupe developed by Dr. Loy, which ripens more than a week earlier than Rocky Sweet. For maximum sweetness, harvest when skin color has turned yellow. If cool wet weather causes cracking before full ripening, harvest at first yellow blush and store for two or three days. Texture is smooth, color ranges from whitish-green near cavity to darker green towards rind, with a subtle delectable—almost tropical—taste. Tolerant to ANTH and GSB. ② **A**=1g, $1.50 (~33 seeds), **B**=3g, $4.00, **C**=15g, $14.00

1038EG Earligold Cantaloupe (78 days) Much more flavor than Sweet Granite or Alaska. Makes a concentrated set of 2½ lb. netted orange-fleshed fruits of uneven quality. Those ripening during warm spells generally develop a rich musky flavor, but those ripening when nights are cold are frequently insipid and watery. Skin will turn buff with a melony aroma when ripe. Inspect patch daily as they ripen; their holding quality is suspect. Tolerant to PM and F. ② **A**=1g, $1.50 (~40 seeds), **B**=3g, $4.00, **C**=15g, $14.00

1044FB Fastbreak Muskmelon (80 days) Is your melon patch stuck in that slow half-court offense, not putting enough points on the board or ripe fruits in the basket? Get on the ball with Fastbreak! This rough-netted slightly ribbed sweet musky 4 lb. melon with excellent interior color can juice up your production with its good yields and eating quality. Second to Earliqueen for high early yields in the 2002 Highmoor Farm trial, but not as sweet. Tolerant to F2 and PM1. ⑤ **A**=1g, $2.00 (~29 seeds), **B**=3g, $6.00, **C**=15g, $28.00

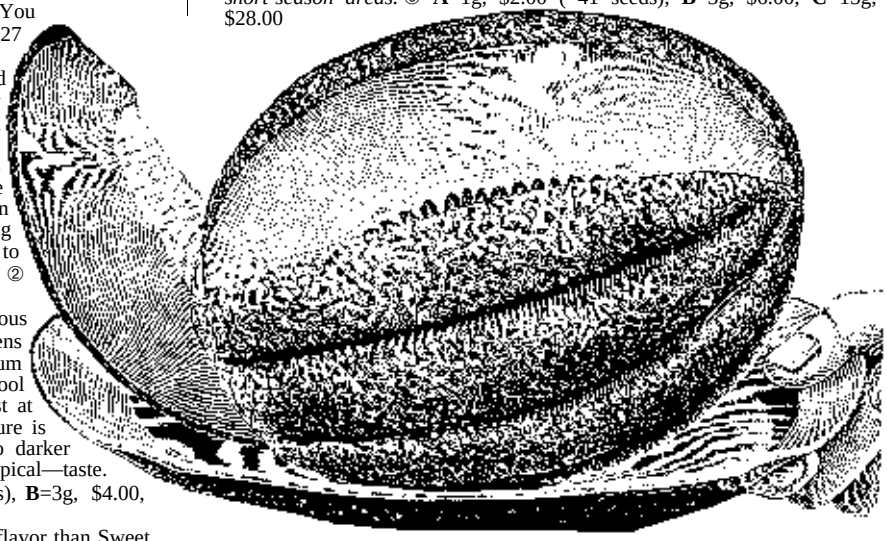
1046TH Athena Muskmelon (80 days) "The plants were our most vigorous cucurbit in our greenhouse, the melons spectacular! A sweet, productive…delightful variety. Will definitely grow Athenas again," says Michigan grower Ann Elder. Ranks right up there with French Orange and Sugar Bowl in Peter and Jill de Bethune's taste tests. Ripens slightly ahead of Pulsar with nice orange interior color and good sweetness, not musky like Pulsar. Oval-round well-netted lightly ribbed fruits average 2½-4 lb. An excellent shipper, recommended for commercial growers and the favorite melon at Jill and Peter's Common Ground Fair farmers market stall. Tolerant to F0,1,2 and PM1,2. ⑤ **A**=1g, $2.50 (~40 seeds), **B**=3g, $7.00, **C**=15g, $32.00

1054PU Pulsar Muskmelon (82 days) Along with Earliqueen, Pulsar is the variety I depend on to produce vine-ripe fruit at Shooting Star Farm. For years Alden McCutchan of Kenyon, MN, sent me annual photographs of his largest specimens which regularly exceeded 7 lb. and once reached a high of 9½ lb. While that is highly unusual, Pulsar's large deeply ribbed fruits consistently average 4-6 lb. Orange flesh is slightly grainy, exceptionally sweet and aromatic. Received a brix reading of 11 at MOFGA Exhibition Hall. Ripens dependably with consistent high quality and a muskiness that makes you go back for more. Very early for such a big melon—McCutchan has gotten ripe melons by mid-August. Tolerant to PM, F. ⑤ **A**=1g, $2.00 (~38 seeds), **B**=3g, $6.00, **C**=15g, $28.00



1081BH Burpee Hybrid Muskmelon (88 days) The first full-sized vine-ripened muskmelon I ever ate was a Burpee Hybrid. What a revelation! The musky succulent 3-4 lb. fruits have been the choice of discerning market growers for more than forty years. When Burpee introduced it in 1955 it was the most expensive vegetable packet in their catalog at 75¢ for 40 seeds, roughly equivalent to $4.50 in 2004 dollars. Fruits heavily netted with distinctive ribbing and delectable orange flesh. Ripe at full slip. Tolerant to PM. ⑤ **A**=1g, $2.00 (~40 seeds), **B**=3g, $6.00, **C**=15g, $28.00

1090AM Ambrosia Cantaloupe (91 days) "Ambrosia…is underrated. It always ripens in my garden just behind Pulsar and just has the ultimate sweetness and texture—so worth the wait!" Discriminating growers such as Jefferson Maine's Rosey Guest prefer this sweet juicy salmon-fleshed melon. Round fruits average 4 lb. with thick, almost silky smooth flesh and very small cavities. The taste lives up to its name. Can harvest when fruits begin to blush yellow before full slip, and finish ripening indoors, as fruits tend to crack before full slip in cool conditions. *Caution: Not adaptable in short-season areas.* ⑤ **A**=1g, $2.00 (~41 seeds), **B**=3g, $6.00, **C**=15g, $28.00



1094SN Sugar Nut (85 days) If you're nuts about sugar you'll be nuts about Sugar Nut. These early Canary melons are very, very sweet, yummy like candy with a smooth texture that satisfies. As a breakfast treat for kids, they're unbeatable, not musky but crunchy sweet. Donna Dyrek's 13-year-old daughter Avalon rates them tops, and she has a lot of melons to choose from. 2 lb. fruits with small seed cavities and flavorful white flesh. Rind is striking bright yellow. Uniform ripening at full or forced slip. Stores well. Ripened for Donna Dyrek in a bad melon year when Sweetie didn't. **NEW! A**=1g, $2.50, **B**=3g, $7.00, **C**=15g, $25.00

HONEYDEW *C.m.* (inodorus group)

1096ED Earli-Dew Honeydew (88 days) A delicious green-fleshed smooth-skinned melon suitable for cool northern areas. 2½-3 lb. fruits blush yellow when mature. Tolerant to PM and F2. ⑤ **A**=1g, $2.50 (~45 seeds), **B**=3g, $7.00, **C**=15g, $32.00

CRENSHAW *C.m.* (inodorus group)

1098BH Burpee Early Hybrid (91 days) Burpee Crenshaw yields teardrop-shaped 7-10 lb. fruits with firm thick orange indescribably tangy flesh. Flavor is smooth, subtle, refreshing, but not musky. It passed the ultimate melon test by inspiring total passionate abandon among friends of Jill de Bethune. Rind turns from green to blush yellow as it ripens. *Caution: May not mature in northernmost areas.* ⑤ **A**=1g, $2.00 (~30 seeds), **B**=3g, $6.00, **C**=15g, $28.00

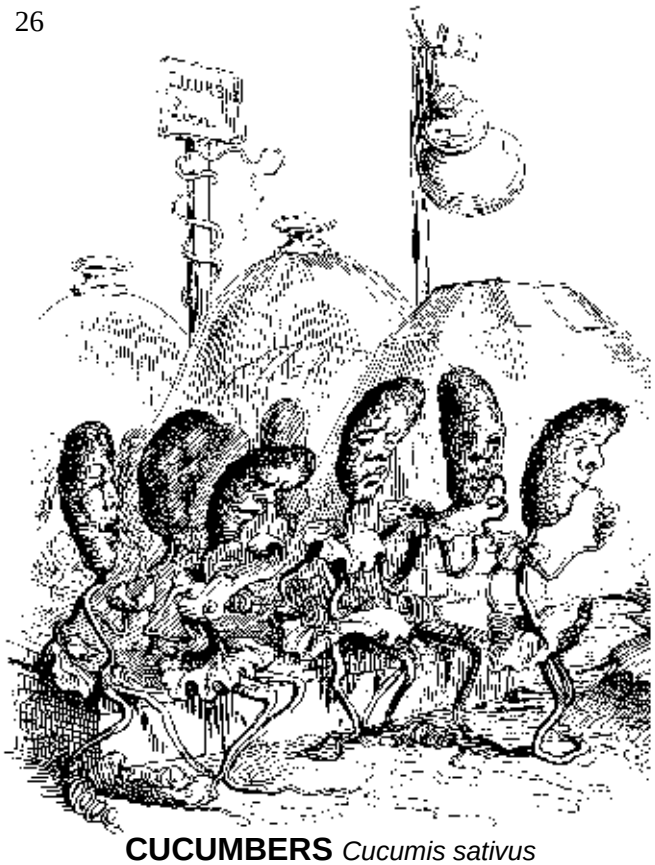
WATERMELON *Citrullus lanatus*

1110YD Yellow Doll (75 days) Our customers have made Doll our best-selling watermelon year after year, again purchasing more than 4 lb. of seed in 2003. Doll's 4-7 lb. icebox fruits on a semi-compact vine have a light green rind with dark stripes. Earliness and superb quality make Yellow Doll the best. Vine-ripens even when all others fail. ⑤ **A**=1g, $1.60 (~29 seeds), **B**=3g, $4.00, **C**=15g, $18.00

1164JS Jade Star (85 days) One of our most underappreciated varieties, ripening quickly for such a big melon. Since Jade Star stole the show in our watermelon trial over a decade ago, we've tried scores of other watermelons without finding any to match Jade's taste. Jade produces sweet round dark green fruit in excess of 10 lbs. Deep red flesh—similar to that of Sugar Baby but superior in quality—contrasts with its dark rind. Jade is the one red watermelon I would never be without. ⑤ **A**=1g, $1.50 (~24 seeds), **B**=3g, $4.00, **C**=15g, $15.00

1176SF Sweet Favorite (86 days) 1978 AAS from Sakata. One of the best oblong watermelons for the North. Consistently produces 10-13 lb. fruits with sweet bright red flesh. Green rind with dark stripes. Used as a "control" in our 1998 taste test, it way surpassed the eight other Fedco wannabees. Tolerant to ANTH and F. ④ **A**=1g, $1.50 (~20 seeds), **B**=3g, $4.00, **C**=15g, $15.00

1188SG Sangria (88 days) Community Farm of Ann Arbor CSA reports, "Very tasty…very juicy…Made us very happy." The sweetest (12-14% sugars), juiciest watermelon in our trials. These elongated ovals average 10-11 lb. with dark green rind broken by light green stripes. Bright refined red flesh will satisfy the most avid sugar seekers. Sangria, the first hybrid Allsweet type ever developed, has been a big hit on the market. *Caution: May not ripen in northernmost areas*. Tolerant to some races of ANTH and F. ⑤ **A**=1g, $1.60 (~20 seeds), **B**=3g, $4.00, **C**=15g, $20.00



CUCUMBERS *Cucumis sativus*

1/16 oz packet sows 11 ft, 1 oz about 180 ft. Very tender, will not survive frost. Sow 2" apart in rows 3' apart or 6 per mound in hills 4' apart thinning to 3 best plants. Combat striped cucumber beetles by handpicking early AM when the dew makes them sluggish, or use floating row covers, removing when cukes flower. Pick frequently for best production. We had heard of gourds being used as musical instruments, but had never before encountered the cucumberophone until we picked up the August issue of The Avant Gardener. Seems there is an orchestra out of Vienna touring Europe playing vegetable-based instruments. In addition to cucumbers they also use carrot flutes, eggplant cymbals, pumpkin drums and celeriac bongoes.

PICKLING

1219CB Cool Breeze Cornichon (49 days) F-1 hybrid, parthenocarpic, requiring no bees for pollination. A pickler even more prolific than Vert de Massy. This French cornichon type acts like it's on steroids, just pumping out the dark green seedless 4" fruits with small spines. From just a few row feet, we had 56 in our first picking, almost 130 in all. Had we been able to keep up we would have found even more. These are best harvested finger-size for gherkins or allowed to grow slightly larger for salads. The only thing as surprising as its yields was your rousing response when it debuted in our 2003 catalog. You bought more than 1,000 packets and used up more than 7 lb. of seed. Resistant to CMV, PM and scab. ⑤ **A**=1/16oz, $1.40 (~62 seeds), **B**=1/4oz, $4.00, **C**=1/2oz, $7.00, **D**=1oz, $14.00, **E**=4oz, $45.00, **K**=1lb, $170.00

1226NL National (52 days) Open-pollinated. In 1924, aiming to create a variety adaptable for both small pickles and dills, the National Pickle Packers Association began a collaboration with the Michigan Agricultural Experiment Station. Within five years they achieved success, introducing National. Not quite as early as Northern Pickler, but tending to hold quality over a longer season, the firm black-spined dark-green fruits are usually quite sweet, rarely bitter. Plants are vigorous dependable producers. Resists CMV and scab. ②③ **A**=1/16oz, 60¢ (~65 seeds), **B**=1/4oz, $1.10, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $11.00

1232CS Calypso (52 days) Heavy-yielding hybrid of gynoecious type. Fruits medium-dark green with white spines. In a trial of 7 pickling varieties at Highmoor Farm in 2001, Calypso had the most early yield. Tolerant to ANTH, ALS, CMV, DM, PM, resistant to scab. ② **A**=1/16oz, 60¢ (~55 seeds), **B**=1/4oz, $1.10, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $9.00, **K**=1lb, $30.00

1234CC Cross Country (52 days) F-1 hybrid. Sales of over 1,000 packets for each of the past four years prove that Cross Country goes the distance with our customers. Among cucumbers, only Marketmore 76 is more popular. The best pickler in our trials, Cross Country bears abundant blocky straight dark green white-spined fruit of uniformly good quality. Our trialer described its sweet taste as "crunchy and cool." Had the best length/diameter ratio of 3.24 in the 2001 Highmoor Farm. Has been highly rated in brine tests. So named because of its widespread adaptability. Resistant to scab, ANTH, ALS, PM and DM. ⑤ **A**=1/16oz, 90¢ (~60 seeds), **B**=1/4oz, $1.70, **C**=1/2oz, $3.20, **D**=1oz, $6.00, **E**=4oz, $16.00, **K**=1lb, $60.00

SLICING

Marketmore 76 (63 days) Dr. Henry Munger's classic open-pollinated cucumber for the ages, long the leading slicing variety in the Northeast. We sold 85 pounds of seed in 2003, more than quadruple any other cuke. That's a lot of cucumbers! Dark green 8-8 1/2" fruits show good uniformity. Vines vigorous throughout season. Tolerant to CMV, DM, PM, resistant to scab.

1312MM Marketmore 76 ② **A**=1/16oz, 60¢ (~70 seeds), **B**=1/4oz, $1.10, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $5.00, **K**=1lb, $12.50

1313MO Marketmore 76 OG CCOF-certified. ③ **A**=1/16oz, 70¢ (~85 seeds), **B**=1/4oz, $1.20, **C**=1/2oz, $2.20, **D**=1oz, $3.50, **E**=4oz, $7.00, **K**=1lb, $24.00

1328GL General Lee (66 days) F-1 hybrid. Although the Confederate general fell a little short 139 years ago, this General is conquering some Yankee gardeners and farmers. High yields of uniform straight dark-green white-spined 8-8 1/2" slicers don't peter out in the halcyon days of summer. Doesn't develop yellow "bellies" and retains that good Sweet Salad flavor. Along with Cross Country (#**1234**), the best of the cucumbers we've tested in recent years. Tolerant to scab, CMV, PM and DM. ⑤ **A**=1/16oz, 90¢ (~64 seeds), **B**=1/4oz, $2.50, **C**=1/2oz, $4.50, **D**=1oz, $8.00, **E**=4oz, $30.00, **K**=1lb, $100.00

1334MK Marketmore 86 (68 days) Open-pollinated. Similar to Marketmore 76 except it has a smaller semi-bush vine for easier picking. Broad disease tolerance (CMV, DM, PM and scab) and more vigor make the quality of its 8" fruits superior to other non-vining types. Not burpless. ② **A**=1/16oz, 70¢ (~65 seeds), **B**=1/4oz, $1.20, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $20.00

1356SC Shantung Suhyo Cross (60 days) F-1 hybrid. Produces a plethora of uniform 12-14" never-bitter sweet-tasting cukes. Even in dry conditions the vines keep making quality fruits which never develop shrunken necks. Our cucumbers were very gracefully curved, although had we provided trellising they would have been straight. Seed comes from Japan and is very expensive. Tolerant to DM, PM, CMV. ⑤ **A**=0.5g, $1.20 (~20 seeds). *Not available in larger sizes.*

1358SO Suhyo Long OG (61 days) Asian cucumber grows up to 15" long with a curly shape. More uniform if trellised. These cukes are sweet with a mild burpless flavor. OT-certified. ① **A**=1g, 90¢, **B**=4g, $2.50, **C**=12g, $6.00, **D**=48g, $12.00. *Not available in larger sizes.*

1360BB Boothby's Blonde ECO (63 days) Open-pollinated. Maine, famous for Moody's Diner and Moxie, also boasts its own less well-known heirloom cucumber, maintained for five generations by the Boothby family of Livermore. Boothby's fruits are short, plump and oval-shaped, averaging 3-4" and becoming yellower as they mature. They feature a creamy exterior with contrasting black spines and a juicy refreshing interior. Seed cavities are larger than those of most other cukes, but the seeds themselves, far from being objectionable, add to the mild sweet flavor that makes the fruits so good for eating out of hand. Boothby's usually lacks the bitter aftertaste so common in many of the other white cukes we've trialed. Has the "cool" texture I've usually found only in the Mideastern types. Boothby's goodwill ambassador Will Bonsall passed it on both to Pinetree seeds and to us. Two sources of seed grown in Maine, one veganically, the other sustainably. ① **A**=0.5g, 60¢ (~6 seeds), **B**=2g, $2.00, **C**=4g, $3.00, **D**=16g, $5.00, **E**=64g, $15.00

1372LM Lemon (68 days) Open-pollinated. Would you buy a lemon from Fedco? A lot of people will buy this lemon beloved by salad chefs and backyard gardeners alike. They'll get heavy yields of rounded 3" fruits shaped somewhat like lemons. Color evolves from pale greenish yellow (immature though preferred by some customers as tenderest and least seedy) to lemon yellow (best eating stage for most) to golden yellow (full maturity and seed production). Very crisp and sweet; never get bitter and one of the best for eating right out of the garden. Samuel Wilson of Mechanicsville, PA, introduced this lemon in his 1894 catalog, some years before Detroit started turning out some lemons you wouldn't buy. ③ **A**=1/16oz, 60¢ (~57 seeds), **B**=1/4oz, $1.20, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $20.00

1382AM Amira Middle Eastern (52 days) F-1 hybrid Beit Alpha type. Amira's 4-5" green smooth-skinned fruits are enjoyably mild and almost completely free of the bitterness quite common in American slicers. These cukes are real thirst-quenchers. Commercial growers will benefit from Amira's extremely heavy early sets. Tolerant to CMV, DM, PM. ⑤ **A**=1g, 90¢ (~34 seeds), **B**=4g, $3.00, **C**=12g, $8.00, **D**=36g, $20.00. *Not available in larger sizes.*

1392TG Telegraph Improved European (60 days) Originally developed for greenhouse production, but suitable for growing outdoors, this open-pollinated European cucumber has long (10-14") slim smooth-skinned fruits of very delicate mild flavor, seldom bitter. Unsupported vines will produce curved and misshapen fruit. Telegraph is parthenocarpic, meaning it can set fruit without being pollinated, an advantage in cold cloudy summers. ② **A**=1g, 90¢ (~35 seeds). *Not available in larger sizes.*

1396HL Holland (62 days) F-1 hybrid. As tasty as it is expensive, in fact the best-tasting cucumber I've ever had. Some seed companies sell comparable varieties for fifty cents *per seed.* We'll take a smaller markup to keep this one affordable. Bred for greenhouse culture, it produces slender smooth-skinned long, long (12-16") elegant crisp sweet bitter-free cukes—the kind you can find individually plastic-wrapped for a buck fifty apiece in your supermarket. If you grow this parthenocarpic cucumber outdoors, please trellis it for straight fruit. Tolerant to scab. ⑤ **A**=0.5g, $3.00 (~20 seeds). *Not available in larger sizes.*

SUMMER SQUASH *Cucurbita pepo*

Packet sows 4-6 hills; 1 oz 40 hills. 200-300 seeds/oz. Tender, will not survive frost. Sow in hills 4 ft. apart, 6 seeds/hill. Thin to 2-3 best plants. Pick squash when they are small for best flavor. Floating row covers can hasten maturity by 1 to 2 weeks. In early summer, a combination of cool, cloudy weather and a declining bee population may result in poor pollination causing low yields. Mites have wiped out a high percentage of wild and domesticated honeybee colonies in the last fifteen years, creating a real crisis for cucurbit growers. We've recently found some good old-timey summer squash varieties which we hope to offer in future catalogs.

ZUCCHINI

With all the descriptive names New Englanders have for overgrown zucchinis, it is Interesting to note that the word 'zucchini' was not itself in common parlance until after World War II. Varieties we now call zucchinis were known as Italian vegetable marrows or cocozelles. Speaking of overgrown zucchinis, I recently heard on the radio that a grower from Niagara Falls, NY, just claimed the world record for the longest zucchini, a 76" monster. Reportedly, the secret was "suspending the vines from hanging cables and watering every day."

1402EB Eight Ball (40 days) F-1 hybrid. Noted squash seed grower Hollar did not have to hire Minnesota Fats as their publicity director to win an AAS for Eight Ball and we're not hustling when we tell you that Eight Ball deserved the award. So don't be behind the Eight Ball! Join more than 700 of our customers who've already discovered that Eight Ball has the sweetness and squash flavor that heretofore had been missing from round zucchinis. Yes, the attractive shiny speckled dark fruits are mature when they're just a little bigger than pool balls. The plant's open bush habit should please both home and market growers. And with Eight Ball's earliness you might well set a record for the earliest squash you've ever harvested. They'll keep coming, too, till they run your table! ② **A**=1/8oz, $1.10 (~25 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.80, **D**=1oz, $6.50, **E**=4oz, $24.00, **K**=1lb, $90.00

1406SB Spineless Beauty (46 days) F-1 hybrid. When I was growing up, to be called "spineless" was one of the ultimate insults. But in the zucchini business, spinelessness is a compliment, and when you harvest Spineless Beauty your hands will never itch. The 7 1/2x1 1/2" medium-dark green fruits are borne on open plants with spineless petioles. A standout in Sam Birch's productive 1998 summer squash trial and one of the higher-yielding varieties in Highmoor Farm's 1999 zucchini trials. ⑤ **A**=1/8oz, $1.00 (~20 seeds), **B**=1/4oz, $1.80, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $75.00

1408SN Seneca (48 days) F-1 hybrid. Early, very prolific slim medium-green fruits. In the last five years we've sold 6,710 packages (186.2 lb.) of Seneca. If all the seeds were sown and 90% germinated they would have grown 400,000 plants and possibly six million zucchinis. ⑤ **A**=1/8oz, $1.00 (~19 seeds), **B**=1/4oz, $1.80, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $75.00

1409RV Raven (48 days) F-1 hybrid Quoth the Raven, "Nevermore!" Nevermore shall ye lament the lack of a "black" zucchini in our selection. Raven sets the standard for dark zucchini. The smooth-skinned glossy shapely fruits make Raven the likely winner in the zucchini beauty contest. But Raven's merits go more than dark skin deep because research by Dr. John Navazio showed that Raven's dark pigmentation contains more of the antioxidant lutein than lighter-skinned zucchini varieties. Relatively early concentrated production so market growers might want to make succession plantings. ⑤ **NEW! A**=1/8oz, $1.20, **B**=1/4oz, $2.00, **C**=1/2oz, $4.00, **D**=1oz, $8.00, **E**=4oz, $28.00, **K**=1lb, $100.00

1411BZ Black Zucchini (50 days) Here's the 4-1-1 on 1411, a good open-pollinated zucchini that's perfect for home gardeners who are looking for superior flavor, but don't need record-breaking yields. Actually, it's a good producer, just not as prolific as the hybrids. Known simply as Black Zucchini, it is really not black like Raven or Arlesa but instead dark green. It's been around since 1931, when the Jerome B. Rice Seed Co. of Cambridge, NY, brought it from California where it was very popular. Fruits of greenish-white firm tender flesh with small seed cavities, are best picked around 6". The flavor was well above average in our taste tests. Open plant habits make picking relatively easy. ③ **A**=1/8oz, 80¢ (~25 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $3.50, **E**=4oz, $5.00, **K**=1lb, $10.00

1434CZ Cocozelle (53 days) Open-pollinated. Rich-flavored zucchini ribbed with light green stripes. Originated in Italy and called *Cocozella di Napoli* in the 1800s. The term 'zucchini' was first used by two California seed houses around 1921. ②③ **A**=1/8oz, 80¢ (~25 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $3.50, **E**=4oz, $5.00, **K**=1lb, $10.00

1442GR Gold Rush (54 days) F-1 hybrid. Open plant habit and golden color make the cylindrical fruits easy to find. 1980 All-America winner has caught on with home gardeners and market growers. ⑤ **A**=1/8oz, $1.50 (~30 seeds), **B**=1/4oz, $2.80, **C**=1/2oz, $5.00, **D**=1oz, $9.00, **E**=4oz, $35.00, **K**=1lb, $125.00

1456CR Costata Romanesca ECO (60 days) Open-pollinated. All zucchinis are not created equal. Will Bonsall dubbed Costata "the only summer squash worth bothering with, unless you're just thirsty" in the 1995 Seed Savers Yearbook. Deeply striped and ribbed, Costata resembles Cocozelle, but its sweet mildly nutty flavor is distinctive. Thanks to its exceptionally tender skin, it is quite good until it grows very large, but it also damages easily, a liability for commercial transport. Quite drought resistant, Costata outyielded hybrid Seneca during the August 1999 dry spell. If you want to win the blue ribbon for largest summer squash at your fair grow Costata. 20-pounders are easily attainable. ① **A**=1/8oz, 90¢ (~20 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $13.00. *Not available in size K; order size E.*

LEBANESE

1488WB White Bush (50 days) Open-pollinated. Also called Mid-East or Cousa squashes, Lebanese types are bulbous-shaped light green with white speckles. Robust bushes are prolific croppers. Pick fruits when they are young and tender or allow them to fatten for stuffing. Very flavorful. ② **A**=1/8oz, 80¢ (~26 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.00, **E**=4oz, $8.00, **K**=1lb, $15.00

YELLOW

1503PP Papaya Pear (42 days) F-1 hybrid A new shape for a summer squash, the bright yellow fruits look like light bulbs with the wider part near the blossom end. Seminis won a 2003 AAS award for its novelty, exceptional earliness and productivity. If you harvest fruits at 3" for best flavor you will be hard-pressed to keep up with this hard-working semi-compact vine. In our observation plot it appeared resistant to cucumber beetles which swarmed adjacent zucchinis but mostly left Papaya Pear alone. An outstanding variety for both the home and market garden. ⑤ **NEW! A**=1/8oz, $2.00, **B**=1/4oz, $4.00, **C**=1/2oz, $7.50, **D**=1oz, $14.00, **E**=4oz, $45.00, **K**=1lb, $170.00

1506SD Sundance (47 days) This F-1 hybrid crookneck ripens almost 2 weeks earlier than standard crooknecks! And it keeps right on cranking out until frost finally halts it. We have averaged 18 fruits per plant. ⑤ **A**=1/8oz, $1.10 (~40 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.80, **D**=1oz, $6.50, **E**=4oz, $24.00, **K**=1lb, $90.00

1522SP Seneca Prolific (51 days) F-1 hybrid. Heavy-yielding yellow straightneck squash for the North. High yields early. ⑤ **A**=1/8oz, $1.00 (~47 seeds), **B**=1/4oz, $1.80, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $20.00, **K**=1lb, $65.00

Early Summer Yellow Crookneck (58 days) Open-pollinated. Deep yellow warted fruits with bulbous shape and narrow curved necks. Best when picked young. Dates back to 1700 and a standard in early 19th century American seed catalogs. The 1888 Burpee catalog rather uncomplimentarily described it as "covered with warty excrescences" but called the flavor "excellent." Burpee charged a nickel for a packet, a dime for an ounce, a quarter for a quarter oz and 75¢ per pound.

1538YC Early Summer Yellow Crookneck ② **A**=1/8oz, 80¢ (~40 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.20, **D**=1oz, $3.20, **E**=4oz, $5.00, **K**=1lb, $10.00

1539CO Early Summer Yellow Crookneck OG CCOF-certified. ③ **A**=1/8oz, $1.00, **B**=1/4oz, $1.80, **C**=1/2oz, $2.60, **D**=1oz, $4.00, **E**=4oz, $7.50, **K**=1lb, $20.00

PATTY PAN

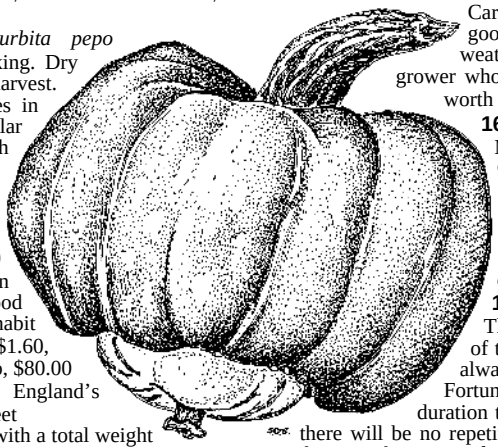
1580SN Sunburst (52 days) F-1 hybrid. Gourmets call Patty Pans "scallopini," and consider them the most appetizing of the summer squashes. They were also known as simlins or cymlings a century ago. Sunburst is among the most attractive of the Patty Pans with its bright yellow skin. 1985 AAS. ⑤ **A**=1/8oz, $1.50 (~39 seeds), **B**=1/4oz, $2.80, **C**=1/2oz, $5.00, **D**=1oz, $9.00, **E**=4oz, $35.00, **K**=1lb, $125.00

1590BG Benning's Green Tint (55 days) Open-pollinated scalloped pale green counterpart to Sunburst. Fruits are most tender at 2-3" diameter. Susan Pierson of Massachusetts rates Benning's as the best-tasting summer squash, "far surpassing Sunburst and other summer squashes—good texture, too." Market grower Alan LePage also lauds its flavor and considers it an under-appreciated variety. Hedrick dates this variety back to 1914. ② **A**=1/8oz, 80¢ (~34 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.00, **E**=4oz, $6.00, **K**=1lb, $12.00

Weight equivalents		
1/16 oz	=	1.77 grams
1/8 oz	=	3.55 grams
1/4 oz	=	7.1 grams
1/2 oz	=	14.2 grams
1 oz	=	28.4 grams
4 oz	=	113.5 grams
1 lb	=	453.6 grams
2.2 lb	=	1000 grams

Open-pollinated WINTER SQUASH

Plant 4-5 seeds per hill. Allow 4-6 feet between hills. Tender, not frost hardy. Heavy nitrogen feeders. Use floating row covers for earlier ripening and cucumber beetle control. Squash bugs cause leaves to wilt, turn yellow, then crispy brown. They are getting to be more and more of a problem in our area. Does anyone know a good organic control for medium and large-scale plots? Excessive heat and/or drought can prevent blossom set, reduce yields. To improve flavor and storage, field cure for at least 10 days after harvest, covering if hard frost threatens. Store under proper conditions, 50° and 60-70% relative humidity. Approximate seed counts: Acorn, Butternut 280 seeds/oz, Buttercup 160 seeds/oz, Hubbard 120 seeds/oz, Spaghetti 190 seeds/oz. See also #6408.



1608TQ Table Queen Acorn (90 days) *Cucurbita pepo* 1½-2 lb. black-green ribbed fruits. Good for baking. Dry flesh is best eaten within 3-4 mos. after harvest. Introduced by the Iowa Seed Co. in Des Moines in 1913, and once known as Des Moines. A similar squash was grown by the Arikara tribe in North Dakota. Peto-Hollar charged 72¢ per pound wholesale for Table Queen in 1953. ② **A**=¼oz, 80¢ (~73 seeds), **B**=½oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $14.00, **K**=5lb, $65.00

1622BU Bush Buttercup Emerald strain (80 days) *C. maxima* Fruits generally a lighter green than Burgess Buttercup, not as uniform or good quality but ready 2 weeks earlier. Its mostly bush habit saves space. ② **A**=¼oz, 80¢ (~35 seeds), **B**=½oz, $1.60, **C**=1oz, $3.00, **D**=4oz, $6.00, **E**=1lb, $18.00, **K**=5lb, $80.00

Burgess Buttercup (95 days) *C. max.* New England's favorite winter squash, enjoyed for its sweet deep-orange flesh. Our six hills yielded 25 squash with a total weight of 95 lb. The 3.8 lb. per fruit is 20% higher than our average in recent years, the 4.2 fruits per hill about normal. Fruits have acorn-shaped button on the blossom end and flattened shoulders. Stem is well dried when ripe. The original buttercup strain showed up as a chance cross between Quality and Essex Hybrid in the trial garden at North Dakota Agricultural Experiment Station during the 1925 season. After further selection, noted seedsman Oscar H. Will of Bismarck introduced it in his 1931 catalog. Alan Kapuler has said, "If you pick only one squash to grow this is it."

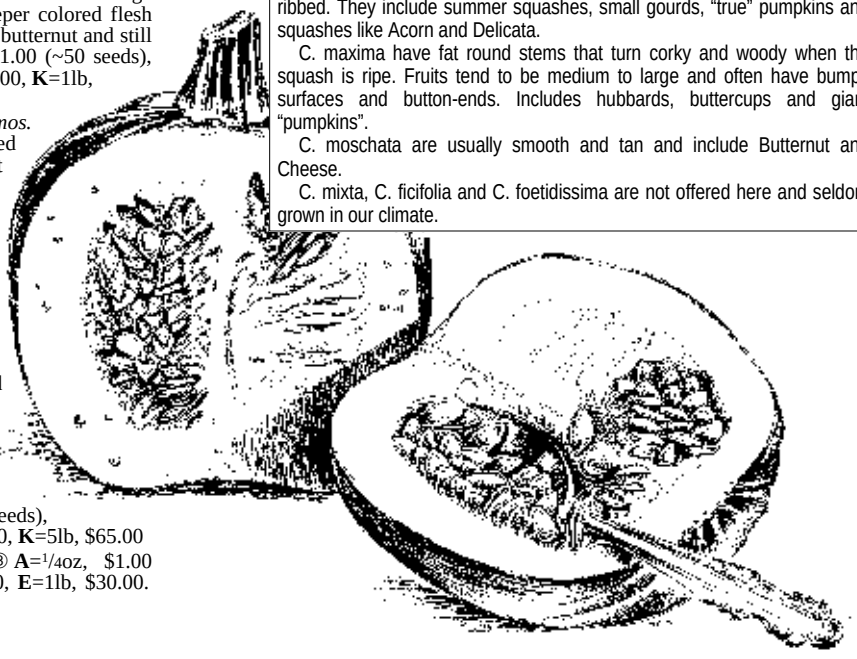
1628BB Burgess Buttercup ② **A**=¼oz, 80¢ (~31 seeds), **B**=½oz, $1.50, **C**=1oz, $2.60, **D**=4oz, $5.50, **E**=1lb, $15.00, **K**=5lb, $70.00

1629BO Burgess Buttercup OG CCOF-certified. *Note: The organic strain contains slight variations. Some fruits lack the button end and on some the shoulders are rounded instead of flattened. The flavor is not affected.* ③ **A**=¼oz, $1.00 (~31 seeds), **B**=½oz, $1.80, **C**=1oz, $3.50, **D**=4oz, $9.00, **E**=1lb, $30.00. *Not available in size K, order size E.*

1637BT Burpee's Butterbush (87 days) *C. moschata* Of the nine different butternut squashes tried by Mark Fulford over the years, this one is "hands down the best." Fruits average no more than 1½ lb, each a perfect one-person serving chock full of deep, reddish-orange flesh "as sweet as the best sweet potatoes." Seed cavities are small. Fulford describes the flavor as nutty, and the texture moist but never watery, not as moist as the large butternuts. They were a big hit when staffer Paula Fulford brought them to our warehouse for a taste test. Their earliness is an important plus, especially in cold summers like 2000, when they were the only one of the Fulford's four butternut varieties to mature. Their compact bushes with short runner vines generally crawl only 3-6', a big bonus where space is precious. Average yield is 3-5 ripe fruits per plant. Superior flavor and deeper colored flesh than any other butternut. Introduced in 1978, the first bush butternut and still the best. Smooth tan skin, excellent keeper. ⑤ **A**=⅛oz, $1.00 (~50 seeds), **B**=¼oz, $1.80, **C**=½oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $16.00, **K**=1lb, $55.00

1640PO Ponca Baby Butternut OG (90 days) *C. mos.* Miniature butternut produces 2 lb. fruits with small seed cavities ideal for short-season gardeners who like butternut but can't vine-ripen Waltham. These small fruits ripen tan without green streaking and don't store as well as their Waltham cousins. WA-certified. ① **A**=⅛oz, $1.00, **B**=¼oz, $1.80, **C**=½oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $70.00

Waltham Butternut (105 days) *C. mos.* Elegant 9" tan fruits weighing 4-5 lb. Orange dry flesh has a sweet nutty flavor. Excellent keeper. Bred by the Massachusetts Agricultural Extension Service by crossing New Hampshire Butternut with an African squash, and introduced by Bob Young of Waltham, MA. The most important squash in Virginia and the Carolinas because more resistant to squash vine borers than other types. Won 1970 AAS. *Caution: often fails to ripen in northernmost areas.*



1644WB Waltham Butternut ② **A**=¼oz, 80¢ (~72 seeds), **B**=½oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $14.00, **K**=5lb, $65.00

1645WO Waltham Butternut OG CCOF-certified. ③ **A**=¼oz, $1.00 (~72 seeds), **B**=½oz, $1.80, **C**=1oz, $3.50, **D**=4oz, $9.00, **E**=1lb, $30.00. *Not available in size K, order size E.*

Candy Roaster *C. max.* (112 days) The Candy Roaster squash is quite rare. There is only one listing for limited quantity in the 2003 Seed Savers Yearbook and we know of no other seed company offering it. That's a shame because it has superb sweet eating quality worthy of its name. It may even make the best baked squash in the world. This big *maxima* grows rampant vines, large leaves and matures somewhat warty pinkish-orange enlarged buttercup-shaped fruits with blue-green markings. Originally called Candy Roaster Melon Squash (it can be enjoyed at immature muskmelon-size as a sweet treat) it should not be confused with the banana-shaped North Georgia Candy Roaster. Certainly better adapted to a hotter climate than ours and may have originated in North Carolina. Warmth brings out its sweetness. Will require good fertility, some coddling and a little luck with the weather to succeed in our area. For the adventurous grower who doesn't mind failing now and then, the reward is worth the gamble.

1646CR Candy Roaster ECO Seed grown in Maine. *May contain a small percentage of off-types.* ① **A**=⅛oz, $1.40 (~18 seeds), **B**=¼oz, $2.50, **C**=½oz, $4.50, **D**=1oz, $8.00

1647CO Candy Roaster OG MOFGA-certified. *Seed in short supply, order early.* ① **A**=⅛oz, $1.60 (~18 seeds), **B**=¼oz, $3.00, **C**=½oz, $6.00. *Not available in larger sizes.*

1648ZO Zeppelin Delicata OG (100 days) *C. p.* The Delicata jinx is the Fedco equivalent of the curse of the Bambino. Despite our best intentions, something always seems to go wrong with the Delicata crop. Fortunately, our curse so far has been of much shorter duration than that of the Sox, and our growers assure us that there will be no repetition of Dumbbell Delicata in this year's seed crop. That was their name for the minority of contaminated fruits which resulted when they inadventently planted a pumpkin variety too close to their Delicata field in 2002. Our field reports indicate that the Dumbbells were not widely prevalent and that "the DZs that didn't end up as Dumbbells were fantastically flavored. Nirvanaland," to quote one grower. Pure Zeppelin is from an old strain that was not affected when the trade allowed this beloved 1894 heirloom to be crossed by desert gourds. Zeppelin is good Delicata. The lovely ivory-colored 1.1 lb. fruits with dark green stripes are oblong and not stubby and have the unsurpassed sweetness that makes Delicata the best of all the *pepos*. In storage the green stripes turn a delicate orange and the cream background sometimes yellows. Now I just wish that I could have as much confidence in the Red Sox managers (the true dumbbells) as I have in our growers. OT-certified. ① **A**=⅛oz, $1.60 (~22 seeds), **B**=¼oz, $3.00, **C**=½oz, $5.00, **D**=1oz, $9.00. *Not available in larger sizes*

Saving squash seed is challenging.

The genus Cucurbita has six different species, of which three are in our catalog. Different varieties within the same species will cross readily, but crossing does not occur between the different species. Seeds from a crop that has been exposed to other cucurbits of the same species won't grow true to type. If you are saving seed, you need to isolate your crop from other cucurbits of the same species by at least one-half mile, or protect it from insects who would bring unwanted pollen, and hand-pollinate it yourself.

Briefly,

Cucurbita pepo have hard 5-sided ribbed stems, and fruits are usually ribbed. They include summer squashes, small gourds, "true" pumpkins and squashes like Acorn and Delicata.

C. maxima have fat round stems that turn corky and woody when the squash is ripe. Fruits tend to be medium to large and often have bumpy surfaces and button-ends. Includes hubbards, buttercups and giant "pumpkins".

C. moschata are usually smooth and tan and include Butternut and Cheese.

C. mixta, C. ficifolia and C. foetidissima are not offered here and seldom grown in our climate.

1649BD Bush Delicata (90 days) *C. p.* This bush version of an old favorite was a 2002 All-America selection. Breeders Molly Jahn and George Moriarty of Cornell University improved Delicata in three significant ways: theirs is much more compact, the semi-bush plants spreading only 4-6', they are ten days earlier and they have good tolerance to powdery mildew which can decimate the older kind. Nor does the new bush variety sacrifice yield or storage capabilities. We harvested 15 1 lb. fruits from only two bushes and they kept throughout the winter. However these gains come with a small price. Although Bush Delicata is almost as sweet as regular Delicata, its texture is not as smooth. And there is some green background mixed into the creamy white coloration which detracts a whit from its beauty. Bush Delicata is worth a try, both for home gardeners who want a sweet taste treat but have limited space, and for commercial growers seeking to maximize yield and profits per acre. PVP. ⑤ **A**=1/8oz, $1.20 (~22 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $75.00

1651SD Sweet Dumpling (100 days) *C. p.* Stunning 1-1 1/2 lb. ivory-colored green-striped fruits shaped like miniature pumpkins sell themselves on the stand. *New York Times* food writer Regina Schrambling raves that "a roasted Sweet Dumpling squash is one of the most amazing things ever to emerge naked from an oven." But make sure your Dumpling is ripe before you stick it in. Underripe Dumpling fruits taste starchy and insipid, nothing like the sweet dry and memorably rich deep orange flesh of the mature ones. ② **A**=1/8oz, 90¢ (~55 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $12.50, **K**=1lb, $40.00 (440 seeds/oz.)

1652HO Green Hokkaido OG (98 days) *C. max.* Slate-green fruits with thick yellow flesh preferred by those who like their squash very dry but not particularly sweet. Ribbed rounded fruits slightly smaller than buttercups. Yield sparing. OT-certified. ① **A**=1/8oz, 90¢ (~15 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $20.00, **K**=1lb, $65.00

1653BB Baby Blue Hubbard (95 days) *C. max.* A scaled-down version of Blue Hubbard (#**1654**), Baby Blue's vines are much more compact and its fruits much smaller (about 4-5 lbs.), without sacrificing much quality. ②③ **A**=1/8oz, 90¢ (~40 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $14.00, **K**=1lb, $40.00

1654BH Blue Hubbard New England strain (100 days) *C. max.* Introduced in 1909 by famous seedsman James J.H. Gregory as Symmes Blue Hubbard, in honor of S.S. Symmes, a gardener who worked for his company for many years. Gregory considered it his best introduction, praising its flavor, productivity and storage qualities. In his 1917 catalog he said "close your eyes…and you would think you were eating cake." Bright yellow-orange dry sweet flesh. Each squash will feed a large family because fruits average 15-20 lb, sometimes exceeding 30 lb. Vines crawl all over the garden. Traditional New England favorite. I often stuff one for Thanksgiving. Prized also for its large white sweet seeds delicious roasted. ② **A**=1/4oz, 90¢ (~29 seeds), **B**=1/2oz, $1.60, **C**=1oz, $3.00, **D**=4oz, $7.00, **E**=1lb, $20.00, **K**=5lb, $90.00

1656RK Red Kuri (92 days) *C. max.* Also called Uchiki Kuri; *Kuri* means chestnut in Japan. Growers admire its spectacular red-orange fruits, among the most attractive of all squashes. Their flavor elicits a wide range of comments from "the best winter squash" to "glorified zucchini, flavor like water." Liking the dry flesh of this Japanese squash, we think the truth lies somewhere in between. Very popular at roadside stands. Teardrop-shaped fruits avg. 3-4 lb. ③ **A**=1/8oz, $1.00 (~13 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $4.00, **D**=1oz, $7.00, **E**=4oz, $25.00, **K**=1lb, $90.00

1660SM Sweet Meat (95 days) *C. max.* This tasty 12-15 lb. slate-grey heirloom, maintained by an Oregon family for 100 years, has a loyal following in the West, but is still underrated in our part of the country. Its dry sweet nutty thick orange flesh improves in storage. Much more economical than Blue Hubbard with a flavor rivaling that of the old New England favorite. ② **A**=1/4oz, 80¢ (~20 seeds), **B**=1/2oz, $1.60, **C**=1oz, $3.00, **D**=4oz, $5.00, **E**=1lb, $14.00, **K**=5lb, $65.00

1666SP Spaghetti (88 days) *C. p.* A novelty item which caught on and now has devoted followers who appreciate the spaghetti-like strings in the flesh. Flavor is rather bland. Buff skin turns pale yellow at maturity. Oblong fruits, generally around 4 lb, often are the first winter squashes to ripen in August. ② **A**=1/4oz, 80¢ (~46 seeds), **B**=1/2oz, $1.60, **C**=1oz, $3.00, **D**=4oz, $5.00, **E**=1lb, $14.00, **K**=5lb, $65.00

1672TT Turk's Turban (100 days) *C. max.* Though a *maxima*, it is often associated with the gourds because its principal function is decorative, not culinary. Regina Schrambling of the *Times* says "they look as if the Mad Hatter had mated with the Great Pumpkin." Flattened drumlike 3-5 lb. 7x7" squashes have an acorn-like protuberance on the blossom end which takes on spectacular tricolored stripes when mature. Below the "button" rind is deep orange-scarlet red. Light yellow flesh probably not of table quality, though some use it in soups. First historical reference is from France (1818), introduced to the States as American Turban in 1869. ② **A**=1/4oz, 90¢, **B**=1/2oz, $1.60, **C**=1oz, $3.00, **D**=4oz, $8.00, **E**=1lb, $24.00. *Not available in size K, order size E.*

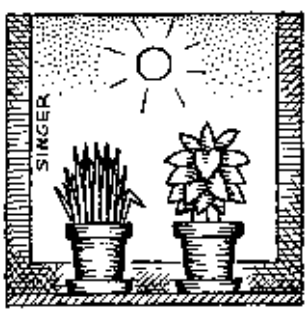
Hybrid WINTER SQUASH

1677EE Burpee's Early Acorn Hybrid (84 days) *C. p.* I was very surprised to discover that acorn squash can be this good. Sweeter and drier than other acorns we've tried, Burpee's top-quality fruits get up to 4 lb, yet ripen a week ahead of Table Queen. Saves some space with its large bush habit. ⑤ **A**=1/8oz, $1.40 (~33 seeds), **B**=1/4oz, $2.60, **C**=1/2oz, $5.00, **D**=1oz, $9.00, **E**=4oz, $30.00, **K**=1lb, $110.00

1680SM Sweet Mama Buttercup (88 days) *C. max.* If you like buttercup squash you should try Sweet Mama, a grey-green drum-shaped buttercup type with rounded shoulders and without the cup. Significantly earlier than Burgess with outstanding sweet flavor. My favorite large winter squash, Mama will interest commercial growers as well as home gardeners. 1979 All-America winner. ⑤ **A**=1/8oz, $2.00 (~22 seeds), **B**=1/4oz, $3.20, **C**=1/2oz, $6.20, **D**=1oz, $12.00, **E**=4oz, $45.00. (190 seeds/oz.) *Not available size K, order size E.*

1683ND Nutty Delica (95 days) *C. max.* May be the best of all the Japanese Kubocha-type squashes after storage. Complex flavor of its deep yellow flesh improves with age. "We baked it and really enjoyed the depth of flavor but [it is] very dry," reported trialer Bambi Jones. Vines produce abundant 2-3 lb. flattened round dark fruits stippled with bright green. Grows well in cool conditions. ⑤ **A**=1/8oz, $2.00 (~20 seeds), **B**=1/4oz, $3.20, **C**=1/2oz, $6.20, **D**=1oz, $12.00, **E**=4oz, $45.00. *No size K, order size E.*

1687CV Carnival (85 days) *C. p.* This squash will give your senses a thrilling ride. First it will treat your eyes to a kaleidoscope of colors, each fruit flecked with shades of green, gold and yellow, no two exactly alike. As it bakes you will enjoy the nutty squash aroma. Finally it will thrill your taste buds with its full-bodied sweetness. This semi-bush acorn type produces its medium-sized fruits near the crowns for easy picking. It should be a marvelous seller at farmers markets. Will store for many months. *Note: Color variation is a function of temperature. In high temperatures Carnival will have less yellow and gold and more green.* ⑤ **A**=1/8oz, $1.20 (~35 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $22.00, **K**=1lb, $75.00



1693PS Pasta Spaghetti (90 days) *C. p.* If you find Spaghetti squash bland, you may want to try Pasta. Its rich yellow flesh has a flavor that stands on its own, not just as the underpinning for traditional spaghetti toppings. One customer described them as "great for vegetarians and non-grain pasta fans!" Medium-vined plants set 8" cream-colored 2-2 1/2 lb. fruits which ripen to a light yellow. ⑤ **A**=1/8oz, $1.40 (~28 seeds), **B**=1/4oz, $2.50, **C**=1/2oz, $4.50, **D**=1oz, $8.00, **E**=4oz, $30.00, **K**=1lb, $110.00

Open-pollinated PUMPKINS

Botanically, there are no such things as pumpkins. But we know one when we see one. Native to N. America, their seeds have been found in Mexico in burial grounds going back 5-7,000 years.

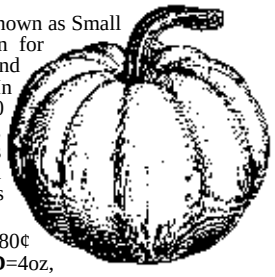
1702WL Wee-B-Little (90 days) *C. p.* This triumph of miniaturization impressed the 1999 AAS judges and will please home and market gardeners and kids everywhere. Unribbed fruits are easier to decorate than Jack Be Little. Small vines (only 6-8') produce 3-4 mini 8-12 oz. fruits per plant. Fruits, more upright than Jack Be Little with darker orange rind, look just like tiny pie pumpkins and could serve as such. Sturdy dark green stems provide prickle-free handles. PVP. ③ **A**=1/8oz, $1.60 (~20 seeds), **B**=1/4oz, $3.00, **C**=1/2oz, $5.00, **D**=1oz, $9.00, **E**=4oz, $28.00, **K**=1lb, $110.00

1705JL Jack Be Little (95 days) *C. p.* Tiny ornamental pumpkins weigh only about half a pound. They're great for decorations and a big hit with kids. Also good to eat, said to be excellent stuffed. Flattened, heavily ribbed with vigorous stems. ② **A**=1/8oz, 90¢ (~59 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.10, **D**=1oz, $6.00, **E**=4oz, $18.00, **K**=1lb, $70.00

1711BP Baby Pam (99 days) *C. p.* Agway pie pumpkin has deep orange color and excellent uniformity. Best of all, it vine-ripens 80-90% of its fruits even in a bad squash year. Fruits average 3-4 lb, slightly smaller and earlier ripening than New England Pie with the same excellent quality. Vermont market grower Joey Klein likes the way it packs out. ② **A**=1/4oz, 80¢ (~68 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $20.00, **K**=5lb, $95.00

1713LU Lumina (100 days) *C. max.* Originating as a chance sport in one of Hollar's California pumpkin fields about twelve years ago, Lumina is a "ghostly" white pumpkin that kids will love, excellent for both carving and painting. Lumina stores well if not exposed to frost, so a face painted on its smooth surface will last for weeks instead of days. Under stress, the fruit may develop blue patches. Fruits 8-10" high average 12 lb, variable depending on growing conditions. Cooks like its sweet yellow flesh. Whether you eat it, decorate it, or both, Lumina is sure to please. PVP. ② **A**=1/8oz, 80¢ (~13 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $14.00, **K**=1lb, $50.00

1716JD Jarrahdale (100 days) *C. max.* Add a touch of the unusual to your squash patch with this grey-blue Australian emigré. Features 6-10 lb. heavily ribbed fruits flattened on top like pumpkins, but much sweeter. Thick stringless yellow-orange flesh takes on a complex rich flavor which is superb for baking and pies. Excellent keeper. ②③ **A**=1/8oz, 80¢ (~40 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $12.00, **K**=1lb, $40.00



New England Pie (102 days) *C. p.* Also known as Small Sugar pumpkin. The standard pie pumpkin for generations. Has been a favorite since around 1860. A robust yielder in good seasons. In 2001 our two hills produced more than 100 pounds, the 25 pumpkins, all vine-ripe, averaged 4.26 lb. During cold summers production is lower and only half will vine-ripen. However, ripening continues during curing.

1719NE New England Pie ② **A**=1/4oz, 80¢ (~70 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $12.00, **K**=5lb, $55.00

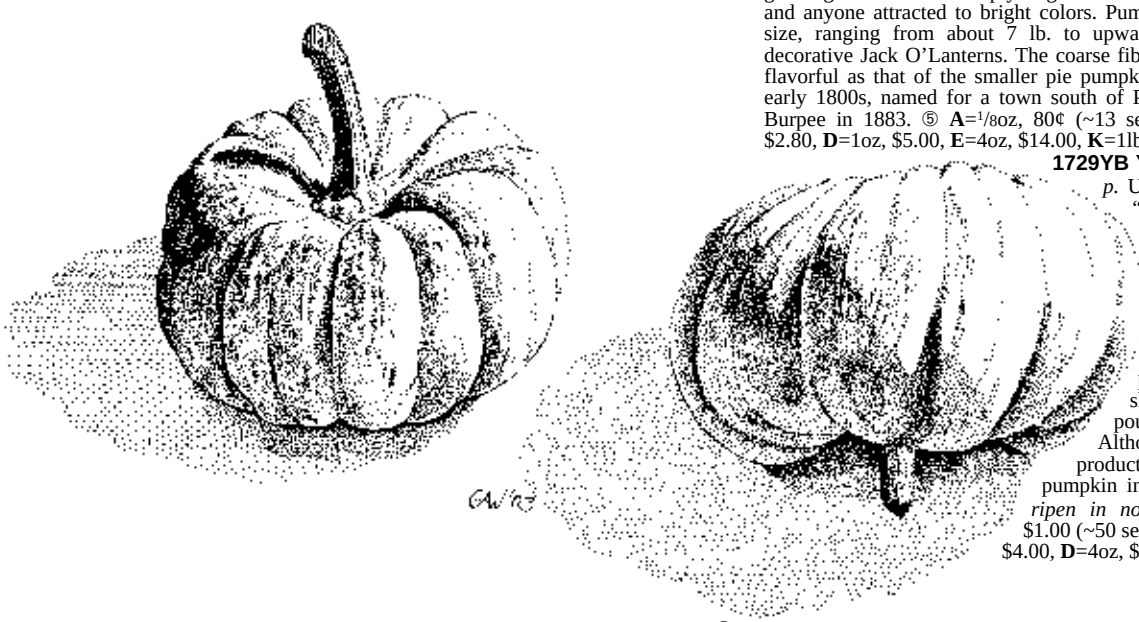
1720NO New England Pie OG CCOF-certified. ③ **A**=1/4oz, $1.00 (~70 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.20, **D**=4oz, $8.00, **E**=1lb, $24.00. *Not available in size K, order size E.*

Long Pie (102 days) *C. p.* Also known as Nantucket Pie Pumpkin, Negro and by several other names. Probably a Native American variety, Long Pie is said to have migrated in 1832 from the Isle of St. George in the Azores to Nantucket on a whaling ship whence it was picked up by various seedsmen and came north to Maine. Burpee offered it in 1888 as St. George. It was and remains highly esteemed as the best pumpkin for Yankee pumpkin pies. Widely grown in Androscoggin County sixty years ago, it was nearly forgotten and narrowly saved from extinction. LeRoy Souther, a Livermore Falls, ME, native who had been maintaining it for more than 30 years, sometime in the late 1980s brought seeds to cucurbit aficionado John Navazio at his Common Ground Fair squash booth. Navazio took them with him to Garden City Seeds in Montana where he re-introduced them to commerce. Long Pie looks like an overgrown zucchini to the uninitiated, but the telltale sign is an orange spot where the otherwise all-green elongated fruit rested on the ground. In storage, the whole fruit first blushes, then glows bright orange, signaling that the delicious flesh within is ready to be turned into incomparable pies. Our six fruit averaged 4.54 lb. in 2001.

1722LN Long Pie ECO Seed grown in Maine. ① **A**=1/8oz, 80¢ (~25 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $5.00, **E**=4oz, $18.00, **K**=1lb, $65.00

1723LO Long Pie OG MOFGA-certified. ① **A**=1/8oz, 90¢ (~13 seeds), **B**=1/4oz, $1.70, **C**=1/2oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $20.00, **K**=1lb, $75.00

1727RV Rouge Vif d'Étampes (105 days) *C. max.* Also known as Cinderella. This spectacular French heirloom turns the pumpkin patch into a glowing blaze with its deeply ridged burnt-orange to red fruits loved by kids and anyone attracted to bright colors. Pumpkins are flat, quite variable in size, ranging from about 7 lb. to upwards of 30 lb. and make great decorative Jack O'Lanterns. The coarse fibrous deep yellow flesh is not as flavorful as that of the smaller pie pumpkins. Originated in France in the early 1800s, named for a town south of Paris. Introduced to the U.S. by Burpee in 1883. ⑤ **A**=1/8oz, 80¢ (~13 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $14.00, **K**=1lb, $50.00



1729YB Young's Beauty (105 days) *C. p.* Unimpressed by Autumn Gold's "precocious yellow" gene? Don't care for its tendency to produce irregularly shaped fruit? Prefer a classic mid-sized open-pollinated pumpkin that usually ripens perfect brilliant deep orange globes? Try Young's Beauty. Expect good production of uniform hard-skinned thick-fleshed 10-12 pounders which make good pies. Although Hollar discontinued seed production, we're keeping this beautiful pumpkin in commerce. *Caution: May not ripen in northernmost areas.* ③ **A**=1/4oz, $1.00 (~50 seeds), **B**=1/2oz, $2.00, **C**=1oz, $4.00, **D**=4oz, $14.00, **E**=1lb, $55.00

1740CH Cheese ECO (110 days) *C. mos.* These 6-12 lb. wide-ribbed flattened tan fruits look like big wheels of cheese. Called by Hedrick in *Cucurbits of New York* (1937) "one of the oldest varieties cultivated in America," a distinctive group which has "remained remarkably stable." Introduced to commerce in 1815 by McMahon. Some folks call this variety Long Island Cheese because it was once the preferred pumpkin for pies in New York, New Jersey and on the island. Bright orange meat is coarse and quite fibrous, but its tender sweetness redeems its textural deficiencies and it does not deserve Hedrick's terse dismissal: "quality poor." Good for baking, deep cavity lends itself to stuffing. Although several references downplay its storability, we have found it to be a dependable producer and a good keeper. Paul Hauser's family in PA has maintained this variety for many years. ①③ **A**=1/8oz, 80¢ (~32 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.80, **D**=1oz, $5.50

1743LG Lady Godiva (110 days) *C. p. Crop failure; we regret not available in 2004.*

1748CF Connecticut Field (115 days) *C. p.* Big pumpkin for Jack O'Lanterns and stock feed gets 15-25 lb, sometimes more. Heirloom grown by Native Americans, adopted by colonists before 1700, and a staple of nineteenth century catalogs. Hirschy sold for 4¢ per packet in 1890. *Ripens for us in good years, but often we must pick green.* ② **A**=1/4oz, 80¢ (~42 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $12.00, **K**=5lb, $55.00

Howden (115 days) *C. p.* For years Howden's symmetrical fruits with hard ridged skin and thick flesh have set the standard by which large round Jack O'Lanterns are measured. Far less likely to set lopsided fruit than Connecticut Field. Fruits typically weigh 20-35 lb, yet often are able to ripen fully in our climate. Tolerant to black rot. Long a favorite of commercial growers who bought 73 4-ounce packages and 27 pounders last year. Developed by John Howden in Massachusetts about 30 years ago.

1751HW Howden ② **A**=1/8oz, 80¢ (~26 seeds), **B**=1/4oz, $1.30, **C**=1/2oz, $2.20, **D**=1oz, $3.20, **E**=4oz, $7.00, **K**=1lb, $20.00

1752HO Howden OG CCOF-certified. ③ **A**=1/8oz, $1.00 (~26 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $14.00, **K**=1lb, $50.00

1757BM Big Max (120 days) *C. max.* These are big pumpkins. Not big enough to compete in the giant pumpkin contests (you'd need Dill's Atlantic Giant, not offered by us, for that) but certainly sufficient for exhibiting in your county fair or for displaying as an awesome Jack O'Lantern. Or perhaps, in the wrong hands, could serve as weapons of mass destruction. Much easier to find than the elusive WMDs in Iraq. Typically weighs 50-100 lb. and measures up to 70" in circumference! ②③ **A**=1/4oz, 80¢ (~24 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $18.00, **K**=5lb, $90.00

Hybrid PUMPKINS

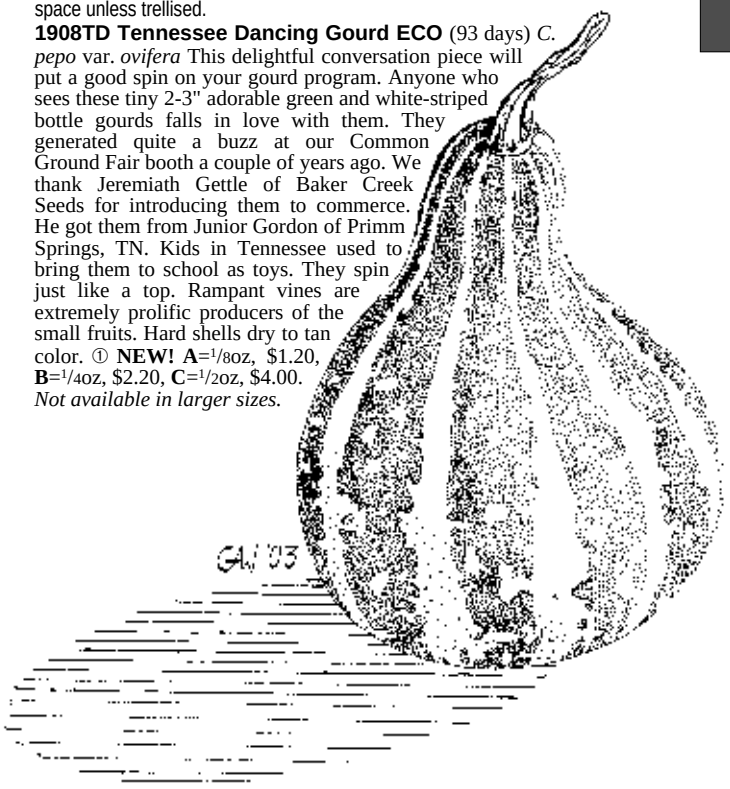
1827SJ Snack Jack (95 days) *C. p.* These pumpkin seeds when roasted will compete with the best junk food. Nikos' teenagers couldn't get enough of the plump hull-less nutritious seeds. The little 2+ lb. pumpkins have big cavities jam-packed with seeds. Each semi-bush plant produces two to five smooth beautiful orange fruits with good stem handles. Make good holiday decorations and delicious pies as well as providing seeds. Dr. Brent Loy, of the University of New Hampshire, already with several stellar melons on his breeding resumé, has done it again with Snack Jack! Like many naked seeded varieties, Snack Jack is a reluctant germinator when direct-seeded outdoors. We recommend instead starting indoors in peat pots, culturing like melons. ⑤ **A**=1/8oz, $1.80 (~25 seeds), **B**=1/4oz, $3.50, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $30.00, **K**=1lb, $110.00

1836AG Autumn Gold (98 days) *C. p.* Even northernmost growers can vine-ripen medium-sized pumpkins with 1987 AAS Autumn Gold. Commercial growers love its "precocious yellow" gene which ensures no green pumpkins at harvest. Instead, immature fruits are yellow, ripening to a deep orange, ribbed, with good handles, 10-15 lb. average. ③ **A**=1/8oz, $1.00 (~35 seeds), **B**=1/4oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $5.50, **E**=4oz, $20.00, **K**=1lb, $75.00

Open-pollinated GAMBOLING GOURDS

Gourds come in two major categories (Luffa is a third). The small ones are Cucurbita pepo var. ovifera also known as ornamental gourds for their variety of shapes, colors and surfaces. These vigorous viners will usually mature in our climate if direct-seeded. The larger ones are Lagenaria siceraria or hardshell gourds, named from the Greek lagenos, a flask, and sicera, an intoxicating drink. Lagenaria, though lacking the color range of their smaller cousins, fascinate with their magical shapes. Because of their long season they must be started indoors in our climate. To improve germination, sandpaper or clip off the radicle end and soak the seed. They resent transplanting and will grow slowly for a few weeks. Once they take off—wow! These rampant crawlers are noted for their enormous malodorous foliage, more velvety in texture than that of other cucurbits, and their large white almost luminous night-blooming flowers. Heavy feeders, they will take up huge amounts of garden space unless trellised.

1908TD Tennessee Dancing Gourd ECO (93 days) *C. pepo* var. *ovifera* This delightful conversation piece will put a good spin on your gourd program. Anyone who sees these tiny 2-3" adorable green and white-striped bottle gourds falls in love with them. They generated quite a buzz at our Common Ground Fair booth a couple of years ago. We thank Jeremiah Gettle of Baker Creek Seeds for introducing them to commerce. He got them from Junior Gordon of Primm Springs, TN. Kids in Tennessee used to bring them to school as toys. They spin just like a top. Rampant vines are extremely prolific producers of the small fruits. Hard shells dry to tan color. ① **NEW! A**=1/8oz, $1.20, **B**=1/4oz, $2.20, **C**=1/2oz, $4.00. *Not available in larger sizes.*



1912SM Small Ornamental Mix (95 days) *C. p.* var. *ovifera* 8 kinds of early maturing types, with small spoon, bicolored pear, and small orange most prevalent. ② **A**=1/8oz, 80¢ (~72 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $5.00, **E**=4oz, $14.00

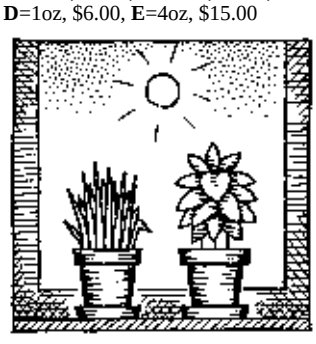
1938SW Small Warted Mix (95 days) *C. p.* var. *ovifera* Pear-shaped, scalloped and round warted gourds in a variety of colors and markings, including greens, white-grey combos, and yellow-green combos. Baseball-sized. ② **A**=1/8oz, 80¢ (~57 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $5.00, **E**=4oz, $14.00

1952CT Shenot Crown of Thorns (95 days) *C. p.* var. *ovifera* These small gourds have pointed ribs that look like teeth. Sometimes called Ten Commandments because the finger-like projections always number ten. Often called Ghost Gourd because of its white cream color and weird shape. Kids love to paint faces on their smooth surfaces for Halloween decorations. Appro-priate in exhibit halls but not in halls of justice. ② **A**=1/8oz, $1.00 (~71 seeds), **B**=1/4oz, $1.80, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $15.00

Curing Lagenaria Gourds is Easy.

Hardshell gourds, page 32, are 90% water at harvest. They need to be cured or dried, a slow process of evaporation through the outer shell, which is covered by a thin ivory-green skin. Curing can take 6 weeks to 1 year (average time 4 months) depending on gourd size, thickness of shell, weather and storage conditions.

Immature gourds (which have not developed a thick shell) will rot after harvest. Mature gourds are large and weighty. To cure, store off the ground in a well-ventilated room or unheated outbuilding. For a smooth beige surface, scrape off the outer skin after it loosens and darkens. (Freezing and thawing loosens the outer skin.) Outer skin, if left on, may become moldy; mold-patterned skin will dry to the gourd shell and can be sanded off, painted over or incorporated into the decoration.



1957AW Autumn Wings (100 days) *C. p.* var. *ovifera* These are to the gourd world as the 1957 Cadillac was to the car world. They have a double set of fins or wings. The car makers claimed aerodynamic advantages for their design; the gourd makers make no such claim. Both the gourd and the car are highly conspicuous. Autumn Wing's colors, a vivid mix of greens, yellows, creams and whites, make them even more so, but would never have appeared on those antique cars. Some of these gourds are straight necked and others are curved. They vary in size, too, although most are 6-8" in length. We stop short of claiming them to be the Cadillac of gourds, but we bet they'll make a good roadside stand attraction. ② **NEW! A**=1/8oz, $2.00, **B**=1/4oz, $4.00, **C**=1/2oz, $6.00, **D**=1oz, $10.00, **E**=4oz, $36.00

1962LU Luffa (110 days) *Luffa ægyptiaca* May be more closely related to the cucumber than to the hardshell Lagenaria. Also known as the Dishrag Gourd, dried and used for making bath sponges. Andrea and Danny Morris of Amherst, MA, point out that Luffa is "very tasty and edible when picked young—great when pre-steamed then...panfried with onions, garlic and curry!" In addition to being a scrubber and a comestible this versatile gourd has been used to make soundproof wall boarding, to insulate army helmets, to stuff mattresses and saddles and even to make filters for steam engines and diesel motors! *Caution: Luffa requires a long season. Start indoors and culture like melons.* We recommend trellising if you want your luffas to remain straight. ② **A**=1/8oz, 80¢ (~36 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $5.00, **E**=4oz, $14.00

1963SG Speckled Apple (110 days) *Lagenaria siceraria* When Nikos and I oohed and aahed over a prime specimen on exhibit at the 1999 Common Ground Fair we knew we had to offer it. Shaped just like a Red Delicious apple blown up to three times normal size, these gourds sit up on four points with dimples in between. Mostly green with some white splotches. Incredibly eye-catching. *This is the true strain from Hollar, not the smaller pepo gourd foisted on us in the past.* ② **A**=1/8oz, $1.60, **B**=1/4oz, $3.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**= 4oz, $25.00

1966LB Large Bottle (120 days) *L. s.* Beware, these vines are rampant crawlers. According to Massachusetts market grower Eva Sommaripa, this variety makes a better birdhouse than the birdhouse gourd. Eva suggests cutting a hole about the size of a quarter with a paring knife. Take out at least some of the innards. Wrap a wire for hanging around the indented waist, fasten a loop of non-rusting wire or nylon cord around a branch, and the wrens (or other species if you're too far north for wrens) will come. Don't hang gourds too close together, as these birds are territorial. Wrens usually nest twice a season, once in May and once in July, so you have two chances. If you take the gourd inside for the winter, it will probably last a second season. ② **A**=1/8oz, 90¢ (~48 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $14.00

1968SP Speckled Swan (120 days) *L. s.* Common Ground fairgoers have gawked at these show-stealers in Jack Kertesz' demonstration garden and at our booth. They admired Swan's beautiful dark-green surface with very pale green 1" splotches which bleed like strokes from a paintbrush. Large round 8-10" base tapers into graceful long neck, sometimes straight, sometimes arched, capped by a small bulb near the stem which looks like a swan's head. ② **A**=1/8oz, $1.20 (~20 seeds), **B**=1/4oz, $2.20, **C**=1/2oz, $4.00, **D**=1oz, $7.00, **E**=4oz, $18.00

1972BB Baby Bottle (125 days) *L. s.* A miniature version of the bottle gourd, 5-8" long. Despite its diminutive size, it is a *lagenaria* requiring as long or longer to mature as its larger counterpart. Painted displays at fairs, festivals and market stands will attract immediate attention. Used for baby rattles in many cultures. ③ **NEW! A**=1/8oz, $1.50, **B**=1/4oz, $2.80, **C**=1/2oz, $5.00, **D**=1oz, $9.00, **E**=4oz, $25.00

1974CC Corsican Canteen (125 days) *L. s.* Sets 3-6 fruits per plant, shaped like an old-fashioned canteen with height of 3 1/2" and a 7" diameter, some larger. Will make lovely lidded bowls. Originally from Native Americans in New Mexico. ② **A**=1/8oz, 90¢ (~17 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $14.00

1978SI Siphon (125 days) *L. s.* With their small 5" bulged bottoms and long elegantly curved necks, these look like swans. The neck curls naturally if not grown on a trellis and can grow to an astounding 5' long. Grow around a broom handle to mold neck into a spiral. ② **A**=1/8oz, 90¢ (~25 seeds), **B**=1/4oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $14.00

1984MK Maranka (130 days) *L. s.* Also known as Dinosaur Gourd. Squash grower Hollar calls them "one of the oddest of the Lagenaria." Maranka makes hard-shelled dark green 10-14" long shiny fruits with knobby protrusions or ridges. Graceful neck curves and tapers at the stem end, though will grow straight if supported. *Caution: Requires a longer season than most other Lagenaria, although I have seen beautiful specimens grown in Maine.* ② **A**=1/8oz, 80¢ (~25 seeds), **B**=1/4oz, $1.50, **C**=1/2oz, $2.80, **D**=1oz, $5.00, **E**=4oz, $14.00

1990BS Bushel (135 days) *L. s.* Shaped like a large bowl with a pot lid on it. Can grow enormous given sufficient heat, but in Maine will probably max out at 18" across. *Caution: requires a long season to mature.* To improve your chances limit each vine to one fruit. Prune to halt vine growth after it sets its first fruit. ② **A**=1/8oz, $1.50 (~15 seeds), **B**=1/4oz, $2.50, **C**=1/2oz, $4.50, **D**=1oz, $8.00, **E**=4oz, $30.00

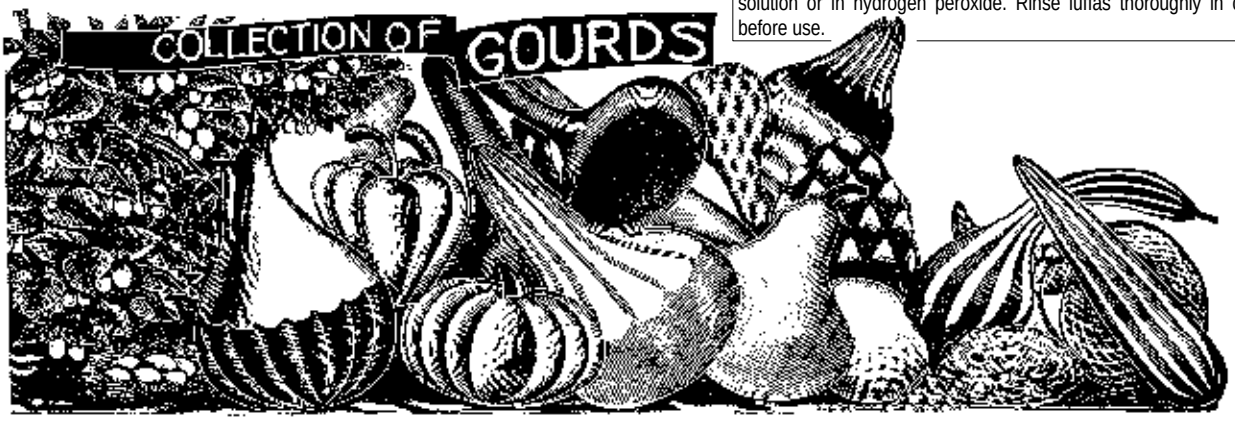
How to Produce a Luffa Sponge

When luffas are ripe their skins turn brown and dry and stems yellow. (Full-sized fruit which are still green produce soft, fine-textured sponges that don't last.) Check plants frequently and harvest ripe gourds. After the first killing frost remove any nearly ripe gourds to a warm well-ventilated place. Gourds left wet for long readily discolor.

If the luffa has just ripened, gently squeeze and pop its skin. Break the blossom end cap and pull the vascular bundle (that's the sponge!) up the side of the gourd like a zipper. The sponge will pop out, wet and white. Quickly rinse it in water to prevent oxidation.

If gourds are too dry to pop the sponge out, ret them (thoroughly soak in water) for several days until the skin sloughs off leaving only the spongy fiber. After retting, shape and dry the sponge. Remove seeds either before or after retting. We found it easy to do before retting: cut open the larger end of the gourd and either shake or rinse out the seeds.

If you wish to whiten the sponges, bleach by soaking either in a 10% bleach solution or in hydrogen peroxide. Rinse luffas thoroughly in clean water and dry before use.



CARROTS *Daucus carota*

Open-pollinated CARROTS

1/8 oz packet sows 35 ft; 1 oz 280 ft. Carrots average 18,000 seeds/oz with significant variations among varieties. Very hardy. Early carrots can be sown by late April. Can take up to 3 weeks to germinate; keep rows from drying out for faster emergence. Sow carrots for winter storage in mid-late June. Thinning is critical: At 3" high thin to 1/2" apart, at 6" thin again to 1" apart. Carrots are rich in potassium and in the antioxidant beta-carotene, a substance noted for its cancer-preventing properties. The original carrots were purple or yellow; the more familiar orange ones are parvenus. We are trying to add more colors to our carrot spectrum. In Jack Kertesz' trial this year we found a potential white carrot for the catalog and a purple which we like much better than Purple Dragon.

2008TH Thumbelina (52 days) This 1992 All-America winner from Peto-seed is the best tasting and most uniform of the Parisian types we've tried. Parisian carrots are suitable for even the heaviest clay soils because they make round balls 1 1/2" in diameter. They mature very early and are best harvested when they are young and tender. Cook them to bring out their delectable creamy texture. ⑤ **A**=1/8oz, $1.60 (~4100 seeds), **B**=1/2oz, $6.00, **C**=1oz, $10.00, **D**=4oz, $35.00, **E**=1lb, $120.00. *Not available in size K, order size E.*

2022MC Minicor (55 days) If you prefer your first baby carrots of summer to be extremely slender roots with very small cores, choose Minicor. Amsterdam/baby Nantes-type boasts 6-7" roots with exceptionally sweet flavor. ⑤ **A**=1/8oz, 90¢ (~4100 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.00, **D**=4oz, $12.00, **E**=1lb, $42.00, **K**=5lb, $190.00

2042SN Scarlet Nantes (68 days) Old-time favorite Nantes variety with bright orange roots averaging 6-7". ② **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $3.50, **D**=4oz, $7.00, **E**=1lb, $15.00, **K**=5lb, $60.00

2050NF Nantes Fancy (68 days) A classy Nantes. Roots 7" long with unusually good color, flavor. Very uniform. Excellent keeper. Always our most popular carrot, Nantes Fancy was the third best-selling item on our entire list last year, topping 2,500 packets. The 245 pounds of seed we've sold in the last three years amounts to more than 70 million carrot seeds! ④ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $14.00, **E**=1lb, $28.00, **K**=5lb, $125.00

2058RC Red Cored Chantenay (70 days) According to William Woys Weaver, this venerable heirloom originated in France around 1879 and "needs no improvement." Produces 5-7" thick red-orange roots which we found in our September taste tests to have excellent carroty flavor. Does well in heavy soils like ours. ③ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $7.00, **E**=1lb, $14.00, **K**=5lb, $50.00

2063YS Yellowstone (72 days) Jeff Bliss of Goshen, MA, won Best in Show among all vegetables entered in the venerable 134th Cummington Fair with Yellowstone carrots. "They were absolutely glowing and golden when we pulled them out of the ground and they held their color throughout the 4-day fair." Diverse colors in carrots are starting to come back into fashion, just as they did for tomatoes and peppers a few years ago. Yellowstone's crisp clean flavor, which has shown up well in our recent taste tests, could help accelerate the trend. So could research showing that yellow carrots contain xanthophylls, pigments similar to beta carotene, which help develop healthy eyes and may help prevent lung and other cancers. Big-shouldered roots grow 8+" long. Productive in a wide variety of soils. ④ **A**=1g, 80¢, **B**=3g, $2.50, **C**=6g, $4.00, **D**=24g, $9.00, **E**=120g, $40.00

2073SK Shin Kuroda 5" (75 days) Over the years we've enjoyed several strains of the stump-rooted Japanese Kuroda-type carrots which are so popular in oriental markets. *Shin* means "new" in Japanese. Tender sweet Shin Kuroda scored highest in our October taste test, and also impressed us with its bright orange color. These Kurodas, a refinement of the old Chantenay type, do well in a wide range of soil and weather conditions. Patrick Postlewait of Carbondale, IL, reports they are amazing performers on heavy clay soil, making 5-7" roots with shoulders as wide as 3". "Also one of the best-tasting carrots we've grown, even when huge." ② **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $8.00, **E**=1lb, $16.00, **K**=5lb, $70.00

2076DO Danvers 126 Carrot OG (75 days) A 1947 refinement of the Danvers Half-Long originated by market gardeners in Massachusetts in 1871. Danvers 126 is a tasty fall and storage carrot. Orange-red roots 7-7 1/2" long, 2-2 1/2" across taper to a blunt end. CCOF-certified. ③ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $10.00, **E**=1lb, $25.00, **K**=5lb, $105.00

2079KE Scarlet Keeper (85 days) *Not available in 2004; we hope to have back in 2005.*

Weight equivalents	
1 gram =	.035 oz
2 grams =	.070 oz
3 grams =	.106 oz
4 grams =	.141 oz
6 grams =	.212 oz
10 grams =	.355 oz
20 grams =	.710 oz
24 grams =	.851 oz
28 grams =	.987 oz
120 grams =	4.24 oz

Hybrid CARROTS

1 gram packet sows 10 ft.

2086MK Mokum (48 days) Arguably the tastiest carrot for fresh eating late spring and summer. Repeat winner of our summer taste tests. Mokum's earliness, slenderness and sweetness transcends its flaws. Blunt Amsterdam-type sizes extremely quickly with short weak tops. Should be harvested before the roots push out of the ground and develop green shoulders. Although not a versatile full-season carrot, Mokum merits succession planting so you can enjoy it young throughout the summer. Always the first to disappear from our spring patch. ④ **A**=1g, $1.20, **B**=3g, $3.00, **C**=6g, $5.00, **D**=24g, $18.00, **E**=120g, $80.00

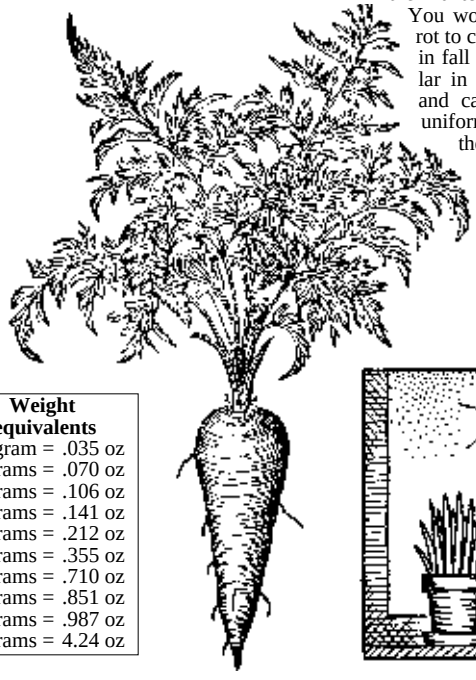
2092NL Nelson (56 days) Twin Oaks Coop in Virginia rates Nelson the best in hot weather when it is hard to get tasty carrots. Sweet carroty Nantes stays tender and crisp under a variety of growing conditions. Smooth and uniform, 6-7" cylindrical blunt roots with deep orange color have won the widespread endorsement of commercial growers and home gardeners. Strong tops make it suitable for summer bunching. Widely grown in Europe; the seed comes from Bejo in Holland. ④ **A**=1g, $1.20, **B**=3g, $3.00, **C**=6g, $5.00, **D**=24g, $18.00, **E**=120g, $80.00

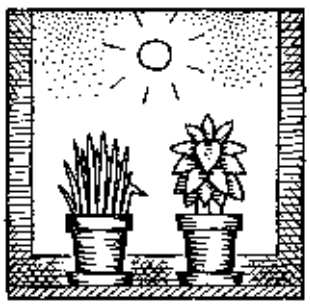
2093BL Bolero (68 days) Nothing Spanish about this carrot except its name; actually developed in France where it is a popular choice for fall and storage crops. Rated highly at a number of taste tests. We like its crispness and carroty flavor and enjoy its juice. Slightly tapered blunt smooth-skinned 8" roots of deep orange color. The first Nantes carrot with a high tolerance to Alternaria blight. A favorite among commercial growers. ⑤ **A**=1g, $1.00, **B**=3g, $2.50, **C**=6g, $4.00, **D**=24g, $9.00, **E**=120g, $40.00

2094BP Bolero Pelleted Seed (68 days) Last year we chose Bolero to be our pilot offering of pelleted carrot seed. These pellets from Nature Coat in California are OMRI-approved and fully compatible with organic certification. They dissolve easily when planted. 1,000 seeds is about 1.5 grams before pelleting and will sow an 80' row at 1" spacing. After one year we're still unsure whether we can make any money selling pelleted seed. If we can, we will expand our pelleted carrot selections next year and consider moving into pelleted lettuce as well. Sold by seed count. Our seed is held over from last year and germinated at 76% in August. ⑤ **A**=100, $1.00, **B**=500, $2.00, **C**=1m, $3.00, **D**=5m, $8.00, **E**=10m, $12.00, **K**=25m, $25.00

2097SS Sugarsnax (68 days) An Imperator carrot with flavor? We thought that was an oxymoron until we met Sugarsnax, a fresh market standout with long slender beautiful 9" deep orange roots ideal for bunching. Outstanding in trials and taste tests, it has a tender sweetness that keeps you coming back for more. Tolerant to ALTS, CLS and pythium diseases. ⑤ **A**=1g, $1.20, **B**=3g, $3.00, **C**=6g, $5.00, **D**=24g, $16.00, **E**=120g, $70.00

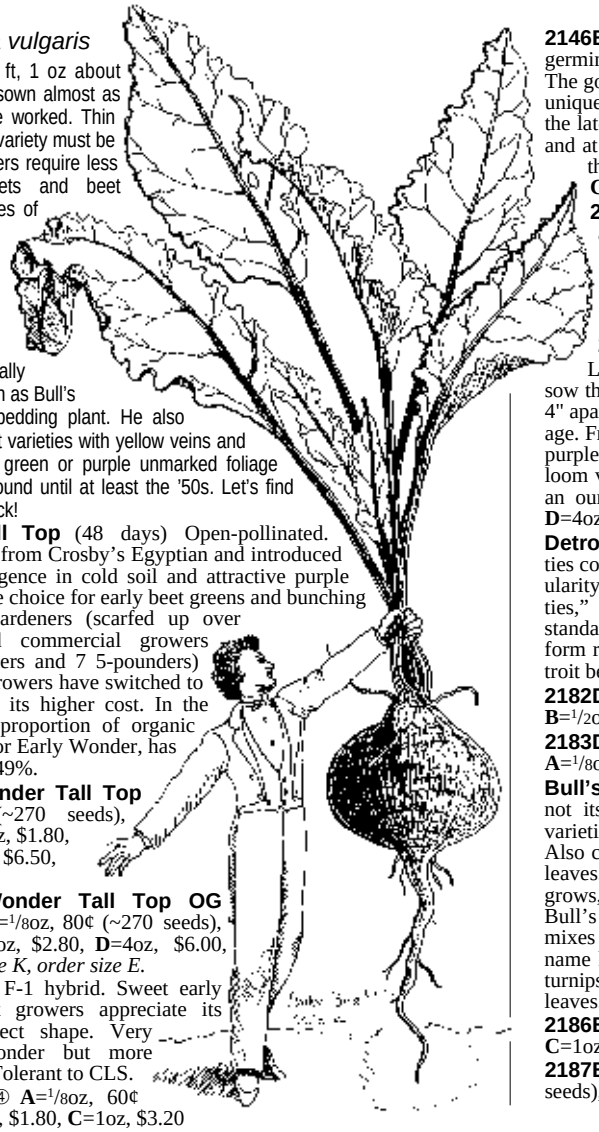
2098CG Canada Gold (73 days) Don't be put off by its Imperator parentage. Gold gets its long tapered look from Imperator, but its rich flavor from the Nantes side of the family. You won't find a tastier carrot to come out of the ground in fall or out of the root cellar in winter. Gold is crisp and carroty with a slender uniform shape that fills to the tip. Its 9" roots can be hard to pull. ⑤ **A**=1/8oz, $1.10 (~1900 seeds), **B**=1/2oz, $3.50, **C**=1oz, $7.00, **D**=4oz, $20.00, **E**=1lb, $65.00





BEETS *Beta vulgaris*

1/8 oz packet sows 20 ft, 1 oz about 180 ft. Hardy. Can be sown almost as soon as ground can be worked. Thin for use as greens. Lutz variety must be thinned to 4" apart, others require less rigorous thinning. Beets and beet greens are great sources of potassium which helps keep blood pressure down and reduces risk of strokes. In Garden Flowers from Seed, Graham Rice suggests that the beetroot, especially red-leaved varieties such as Bull's Blood, be used as a bedding plant. He also waxes nostalgic for beet varieties with yellow veins and those with red, yellow, green or purple unmarked foliage which he says were around until at least the '50s. Let's find them and bring them back!



Early Wonder Tall Top (48 days) Open-pollinated. Selected for earliness from Crosby's Egyptian and introduced in 1911. Quick emergence in cold soil and attractive purple tops make Wonder the choice for early beet greens and bunching beets. Both home gardeners (scarfed up over 1,700 size A) and commercial growers (bought 147 1-pounders and 7 5-pounders) like Wonder. Many growers have switched to organic seed, despite its higher cost. In the last three years the proportion of organic seed sold by weight for Early Wonder, has jumped from 12% to 49%.

2108EW Early Wonder Tall Top ② **A**=1/8oz, 60¢ (~270 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.80, **D**=4oz, $3.50, **E**=1lb, $6.50, **K**=5lb, $30.00

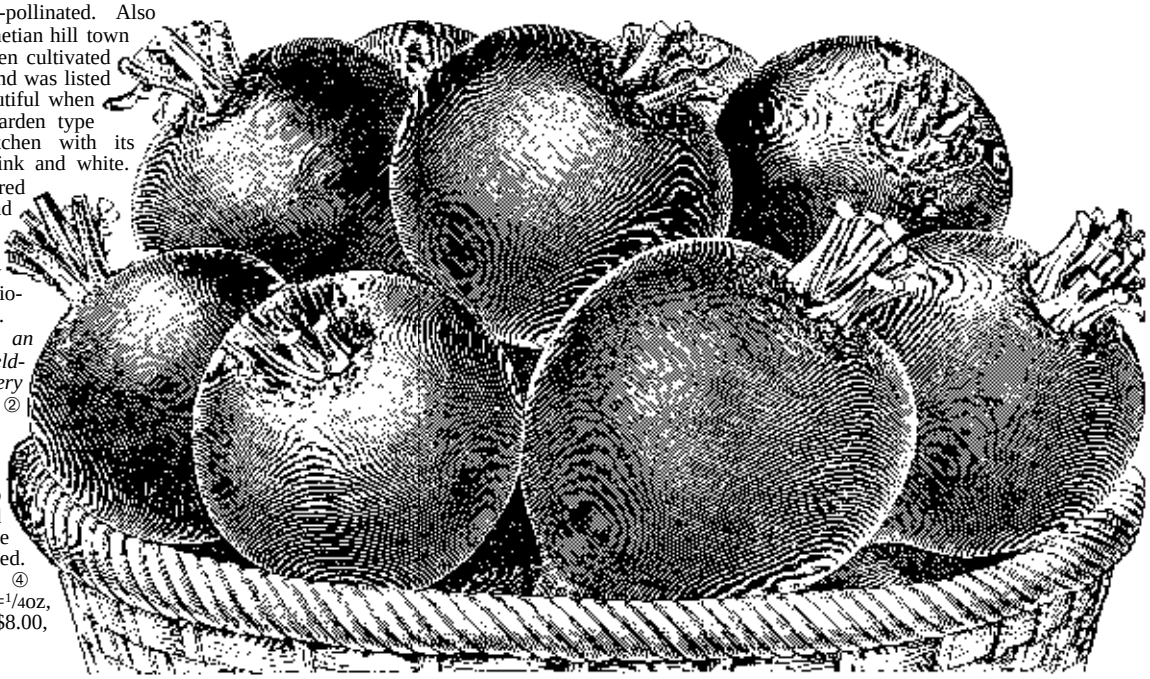
2109WO Early Wonder Tall Top OG CCOF-certified. ③ **A**=1/8oz, 80¢ (~270 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $16.00. *No size K, order size E.*

Red Ace (50 days) F-1 hybrid. Sweet early season beet. Market growers appreciate its uniformity and perfect shape. Very similar to Early Wonder but more refined. Purple tops. Tolerant to CLS.

2120RE Red Ace ④ **A**=1/8oz, 60¢ (~140 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.20

2121RO Red Ace OG PCO-certified. ⑤ **A**=1/8oz, 80¢, **B**=1/2oz, $2.50, **C**=1oz, $4.00, **D**=4oz, $11.00, **E**=1lb, $38.00, **K**=5lb, $180.00

Chioggia (55 days) Open-pollinated. Also known as Bassano, for the Venetian hill town in which it originated. Has been cultivated in the States since the 1840s and was listed by Fearing Burr in 1863. Beautiful when sliced, this heirloom home garden type attracts attention in the kitchen with its alternating interior rings of pink and white. Noteworthy also for its light red exterior color, green tops and exceptional sweetness. It loses quality when it gets large. "Beats all the beets in my humble opinion," says one aficionado. *Worldwide crop shortage.*



2136CH Chioggia *We have an extremely limited supply of held-over commercial seed. Order very early to avoid disappointment.* ② **A**=1/8oz, 80¢ (~350 seeds). *Available in size A only.*

2137CO Chioggia OG We were fortunate to be able to secure organic seed imported from Israel. More expensive than usual. AGRIOR-certified. *Note reduced packet sizes.* ④ **A**=1/16oz, $1.00 (~70 seeds), **B**=1/4oz, $3.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**=4oz, $24.00

2146BG Burpee's Golden (55 days) Open-pollinated. A persnickety germinator we love to hate, given the uncertainty of seed supply every year. The golden roots are extremely sweet, don't bleed like red beets, and make a unique specialty in markets. Each year we are on tenterhooks as we wait for the latest information from our supplier. Will they or won't they be in stock and at what germ? Check our web site for the up-to-the-moment skinny on this absorbing drama! ③⑤ **A**=1/8oz, $1.10 (~430 seeds), **B**=1/2oz, $4.00, **C**=1oz, $7.00, **D**=4oz, $22.00, **E**=1lb, $85.00. *No size K, order size E.*

2156CY Cylindra (56 days) Open-pollinated. Also known as Forono and Formanova. Cylindrical beet grows 6" long. A good pickling or processing beet. Roberta rates them the darkest and least fibrous of our beets. Heirloom from the 1880s. ②③ **A**=1/8oz, 60¢ (~295 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.80, **D**=4oz, $3.50, **E**=1lb, $10.00, **K**=5lb, $45.00

2170LG Lutz Green Leaf (60 days) Open-pollinated. You'll have Lutz of luck if you provide your beets with plenty of mellow compost, sow the seed further apart than with other beet varieties and thin the roots to 4" apart. Also known as Winter Keeper, the best beet to grow for winter storage. Fruits remain sweet even when large. Tops are glossy green without any purple. For a special sweet treat, try baking big ones for about an hour. Heirloom variety from Europe. Available from Maule's 1935 seed book for 20¢ an ounce. ② **A**=1/8oz, 70¢ (~195 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.00, **D**=4oz, $6.00, **E**=1lb, $22.00, **K**=5lb, $100.00

Detroit Dark Red Medium Top (60 days) Open-pollinated. "New varieties come and go, but the Detroit Dark Red, year after year maintains its popularity and holds its place right at the top of the list of good midseason varieties," asserts Stark Bros. catalog in 1924. Introduced 1892 and still the standard late variety for home gardeners and canners. Globular smooth uniform roots with tender oxblood-red flesh. Commercial growers like the Detroit better than any other variety except Early Wonder.

2182DD Detroit Dark Red Medium Top ③ **A**=1/8oz, 60¢ (~295 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.80, **D**=4oz, $3.50, **E**=1lb, $6.00, **K**=5lb, $26.00

2183DO Detroit Dark Red Medium Top OG CCOF-certified. ③ **A**=1/8oz, 80¢, **B**=1/2oz, $1.50, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $16.00

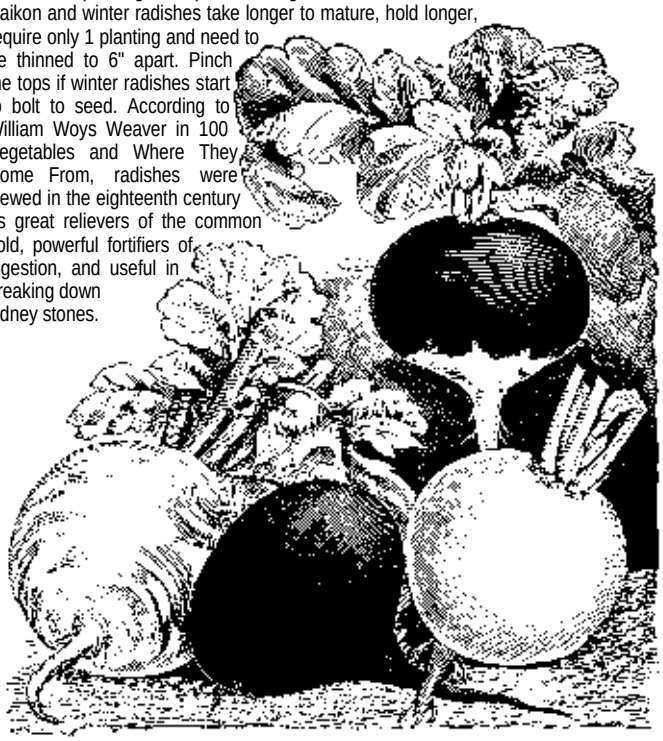
Bull's Blood (60 days) Open-pollinated. Prized for its spectacular leaves, not its rough flattened globe-shaped roots. Runaway winner of the 26 varieties in our beet greens trial, sweet with never a hint of oxalic aftertaste. Also clear winner in the appearance derby, with large glossy reddish-purple leaves. No bull, it holds quality all summer, with color intensifying as it grows, especially under cool conditions in fall or under winter greenhouses. Bull's Blood is Eliot Coleman's red leaf of choice for winter harvest salad mixes (see p. 20 of *The Winter Harvest Manual* #**9877**). Old variety; its name hints of nineteenth century origins when beets were known as blood turnips. Selected from the old French variety Crapaudine for darkest-colored leaves.

2186BB Bull's Blood ②③ **A**=1/8oz, $1.00 (~180 seeds), **B**=1/2oz, $2.00, **C**=1oz, $4.00, **D**=4oz, $8.00, **E**=1lb, $28.00. *No size K, order size E.*

2187BO Bull's Blood OG CCOF-certified. ③ **A**=1/8oz, $1.20 (~180 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.50, **D**=4oz, $15.00, **E**=1lb, $36.00

RADISHES *Raphanus sativus*

1/8 oz packet sows 15 ft, 1 oz 100 ft. All open-pollinated except #2282. Hardy. Can be sown early. Summer radishes easy to grow, quick to ripen and go by; make succession plantings. Require thinning to at least 2" for attractive uniform roots. Daikon and winter radishes take longer to mature, hold longer, require only 1 planting and need to be thinned to 6" apart. Pinch the tops if winter radishes start to bolt to seed. According to William Woys Weaver in 100 Vegetables and Where They Come From, radishes were viewed in the eighteenth century as great relievers of the common cold, powerful fortifiers of digestion, and useful in breaking down kidney stones.



Cherry Belle (25 days) A good smooth red-skinned bunching radish making uniform balls 3/4" across with firm white flesh. 1949 AAS.

2214CB Cherry Belle ②③ **A**=1/8oz, 60¢ (~700 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $20.00

2215CO Cherry Belle OG CCOF-certified. ③ **A**=1/8oz, 80¢ (~700 seeds), **B**=1/2oz, $1.60, **C**=1oz, $2.80, **D**=4oz, $6.00, **E**=1lb, $12.00. *No size K, order size E.*

2224EE Easter Egg (25 days) Rita Corbin of Dover-Foxcroft, ME, calls Easter Egg "the *best* radish I have tried, producing good-size delicious radishes that do not bolt easily. I would have given up on radishes if I had not discovered these…they keep on growing without becoming woody, hollow or too hot." Kids also love this fascinating radish blend which comes in shades of pink, purple, red, violet and white. Our most popular radish. ④ **A**=1/8oz, 80¢ (~320 seeds), **B**=1/2oz, $1.60, **C**=1oz, $3.00. *Not available in larger sizes.*

2234CH Champion (25 days) Smooth scarlet roots with firm mild flesh grow quickly to edible size. 1957 AAS. ②③ **A**=1/8oz, 60¢ (~320 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $6.00, **K**=5lb, $22.00

2240HS Hailstone (25 days) It took our farm a week to recover from our July, 2002 visitation of real hailstones, but it won't take your tummy a week to recover from eating these hailstones because they are not very hot. A crisp round juicy white radish 1" in diameter. Holds well. ③ **A**=1/8oz, 60¢ (~400 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $20.00

2248FB French Breakfast (26 days) Called French Breakfast because it was the favorite in Paris markets. However, we doubt anyone actually ate them for breakfast. "A medium sized radish, olive-shaped, small top, of quick growth, very crisp and tender, of a beautiful scarlet color, except near the tip, which is pure white. A splendid variety for the table, on account of its excellent quality and its beautiful color." —From D.M. Ferry & Co's Descriptive Catalog, 1902. They offered a packet for a nickel, an ounce for a dime and 1 lb. for 65¢. ② **A**=1/8oz, 60¢ (~500 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $20.00

2252PP Plum Purple (26 days) A popular plum-colored round root. Crisp white flesh has a good sweet taste with only a little heat. Very uniform, true to color, almost the size of a ping-pong ball. One customer who grows radishes under root covers to avoid root maggot damage calls Plum Purple the radish most tolerant to slightly shaded row cover conditions. With Plum Purple, Hailstone and Champion, you can make your own tricolor mix.③ **A**=1/8oz, 80¢ (~500 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $6.00. *Not available in larger sizes.*

2262WI White Icicle (30 days) Also known as Lady Finger, heirloom was listed by Fearing Burr as White Naples, White Italian and White Transparent. Firm tender all-white roots for the home garden will grow down 4-6" in all but the heaviest soils. Mild if harvested when young and slender, and remains in good eating condition longer than most other radishes. Starks in 1924 asserted that Icicle was the most widely planted of all radishes and "absolutely unsurpassed in quality." ②③ **A**=1/8oz, 60¢ (~440 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $22.00

Rat-tail (50 days) Grown for its tangy seed pods, not its roots. William Woys Weaver called it "the Don Juan of radishes" because of its readiness to cross with all other radishes, Rat-tail was introduced from Japan in 1866-67 by James J. H. Gregory, the noted Massachusetts seedsman. The plant attracts butterflies and other pollinators, making it useful in the garden even if you don't appreciate its pungent pods. These often are as long as rat's tails, though decidedly more appealing! The immature purplish-green pods are a delicacy in India and Asia, adding a mustardy zing to salads, stir-fries and other dishes. If you've never let a mustard or radish plant finish, you might be surprised to learn they will grow to 5' and branch out as they set seed, so be sure to give them plenty of room. Your objective is not a small root, but a copious supply of pods. We supply shelled seed, so you won't have to mess with pods until you're ready to harvest.

2264RT Rat-tail ECO Seed grown in Maine. ① **A**=1/8oz, 80¢ (~255 seeds), **B**=1/2oz, $3.00, **C**=1oz, $4.50. *Not available in larger sizes.*

2265RO Rat-tail OG MOFGA-certified. ① **A**=1/8oz, $1.20, **B**=1/2oz, $4.00, **C**=1oz, $6.00, **D**=4oz, $22.00. *Not available in larger sizes, order size D.*

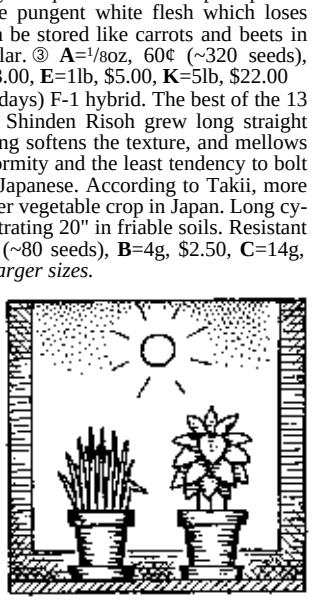
2266MB Munchener Bier (55 days) Here is the perfect accompaniment to a good dark beer. Germans traditionally serve these mildly pungent large white tapered roots sliced thin and salted to go down with their brew. But these radishes are equally good sautéed and then salted. Gives a double harvest because the tender 2-3" aerial seedpods are good in salads and stir-fries. ② **A**=1/8oz, $1.00 (~225 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.00, **D**=4oz, $16.00, **E**=1lb, $60.00. *No size K, order size E.*

2268MO Misato Rose OG (60 days) *Crop failure; hope to have back in 2005.*

2270BS Round Black Spanish (65 days) Venerable Black Spanish has been traced back to the sixteenth-century conquistadores. Turnip-shaped 4" roots with corklike black exteriors have pungent white flesh which loses some heat when boiled or stir-fried. Can be stored like carrots and beets in slightly moistened sand in the root cellar. ③ **A**=1/8oz, 60¢ (~320 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $22.00

2282SR Shinden Risoh Daikon (68 days) F-1 hybrid. The best of the 13 varieties in Eric Rector's daikon trials, Shinden Risoh grew long straight roots, crisp with a full hot flavor. Cooking softens the texture, and mellows the heat. This type showed the best uniformity and the least tendency to bolt in the trial. *Daikon* means "big root" in Japanese. According to Takii, more acreage is planted to daikon than any other vegetable crop in Japan. Long cylindical 2 1/2 lb. roots are capable of penetrating 20" in friable soils. Resistant to yellow wilt and virus. ⑤ **A**=1g, 80¢ (~80 seeds), **B**=4g, $2.50, **C**=14g, $6.00, **D**=28g, $10.00. *Not available in larger sizes.*

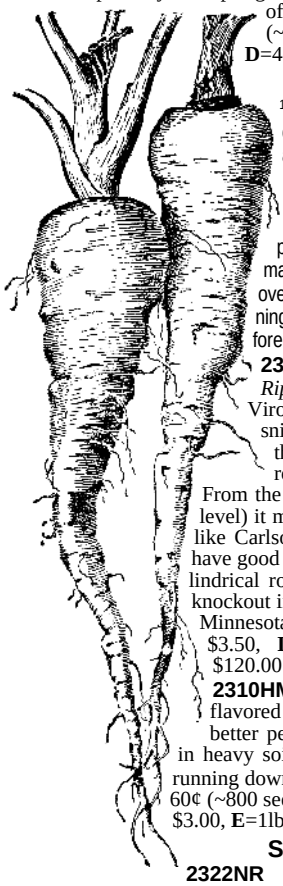
Service for group orders:
No long hours collating your group order! Submit your individual orders in one envelope with one payment. We will pull and package each separately, and send them all to one address. There is no charge for this service and you will still receive the volume discount based on the total of all your seed orders.



OTHER ROOTS

ROOT PARSLEY *Petroselinum crispum*

2301HM Half-Long Hamburg Parsley (90 days) Open-pollinated. Enhance your soups and specialty dishes with these nutty-flavored roots redolent of a parsley/celery combination. The flat young parsley leaves also add zest. Most catalogs recommend growing the roots three months to reach full-size but we had better luck harvesting them half-size in midsummer when they were tender enough to munch raw. Later they got woody. A mid-late summer planting instead of a spring planting will work better to keep them thin and tender longer, sustaining a harvest through much of the winter and possibly into spring if they are protected. Half-Long was the best of several varieties we tested. ⑤ **A**=1/8oz, 70¢ (~2450 seeds), **B**=1/2oz, $1.80, **C**=1oz, $3.00, **D**=4oz, $6.00, **E**=1lb, $22.00, **K**=5lb, $85.00



PARSNIPS *Pastinaca sativa*

1/8 oz packet sows 25 ft, 1 oz about 200 ft. All open-pollinated. One of the best for grating and stuffing into eggrolls, strudels and veggie pies. A parsnip pie is an amazing treat. Jean Ann Pollard has a good recipe in The Simply Grande Gardening Cookbook. Harvest some parsnips after frost for late fall delights. The remainder will taste even sweeter in the spring after overwintering! Seed is short-lived; if you are planning to use old seed, germ test in paper towels before sowing.

2306ND Andover (120 days) Here's one for *Ripley's Believe it or Not.* Kenneth Carlson of Viroqua, WI, writes, "I grew your Andover parsnips last season. On Dec. 30, 2000, I cut through an inch or two of frost to dig one row. One parsnip came out in its entirety. From the very bottom tip to the top of the root (soil level) it measured 3'11"!" We can't guarantee results like Carlson's (yes, he had eyewitnesses) but if you have good soil tilth you can expect refined tapered cylindrical roots 12-14" long consistently. An absolute knockout in our trials. Developed by the University of Minnesota. ④ **A**=1/8oz, 80¢, **B**=1/2oz, $2.00, **C**=1oz, $3.50, **D**=4oz, $8.00, **E**=1lb, $25.00, **K**=5lb, $120.00

2310HM Harris Model (120 days) Sweet-flavored smooth tapered roots average 10". For better performance, prepare raised beds, especially in heavy soils. Don't believe stories that this strain is running down. It looked great in our trials. ②③ **A**=1/8oz, 60¢ (~800 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.50, **D**=4oz, $3.00, **E**=1lb, $7.00, **K**=5lb, $32.00

SCORZONERA *S. hispanica*

2322NR Noir de Russie (120 days) Open-pollinated. Although this long narrow dark-skinned white-fleshed root is hardly handsome, it is prized by gourmet cooks in Europe. They call it the oyster plant for its distinctive flavor and use it like potatoes in *haute cuisine*. *Scorzonera* derives from the Spanish *corteza negra* or "black bark." Has a firm delightful texture almost like pudding, not sweet like many root vegetables. Much of the flavor resides in the dark skin which should not be peeled before cooking. Culture like parsnips, overwintering in the field and pulling as needed. Tastes better after a hard frost. Has only limited storage in root cellars. Seed is short-lived; germ test old seed in paper towels before using. ② **A**=1/8oz, 90¢ (~250 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.00, **D**=4oz, $15.00, **E**=1lb, $55.00. *No size K, order size E.*

SKIRRET *Sium sisarum*

2327SK Skirret ECO (120 days) Open-pollinated. Crop failure. *Not available in 2004.* We hope to have back next year.

RUTABAGAS & TURNIPS

1/8 oz packet sows almost 40 ft, 1 oz about 400 ft. All open-pollinated. Hardy members of Crucifer family. Thinning is critical for full-sized roots.

2358LU Laurentian Rutabaga (95 days) *Brassica napus* Popular Canadian variety with deep purple crown and cream yellow base. Uniform 5-6" almost neckless roots suitable for winter storage, larger and sweeter than American Purple Top, which it replaced. Pale yellow flesh has refined texture and taste. ②④ **A**=1/8oz, 60¢ (~1120 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.80, **D**=4oz, $3.50, **E**=1lb, $11.00, **K**=5lb, $45.00

2372WE White Egg Turnip (45 days) *B. rapa* A staple of seed catalogs throughout most of the 19th century. Henderson in 1902 praised its perfectly smooth skin and snowy white flesh. Roots are egg-shaped, grow rapidly half out of the ground, ideal for early market bunching before they attain full size. The flesh is very sweet, so mild they can be eaten raw fresh from the garden. Good keeper; flavor intensifies in storage. ③ **A**=1/8oz, 60¢ (~1550 seeds). *Not available in larger sizes.*

2376GB Gold Ball Turnip (45 days) *B. r.* Also known as Orange Jelly. Listed in the *Album Vilmorin* (1854-55) as Robertson's Golden Ball, and one of 26 turnips the London seed firm Charlwood & Cummins presented to the United States Patent Office in 1855. It is the only one of the 26 still in commerce. Not truly orange, the skin is very smooth and yellow and the soft flesh is golden-yellow. Leonard Seed Co. in 1934 rated it as "undoubtedly one of the most delicate and sweetest yellow-fleshed turnips…firm, hard and of most excellent flavor." William Woys Weaver calls the flavor unique and describes "an unexpected and pleasant aftertaste of bitter almond." The Seed Savers Exchange catalog considers it "probably the finest culinary turnip" with a flavor more like a rutabaga than an early summer turnip and recommends mashing it with carrots. Rather broad leaves of medium height. Although the globes reach 4-5" at full size, they achieve peak flavor and maximum sweetness at 3" in diameter. Good keeper. ④ **A**=1/8oz, 70¢ (~1600 seeds), **B**=1/2oz, $1.50, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $8.00, **K**=5lb, $30.00

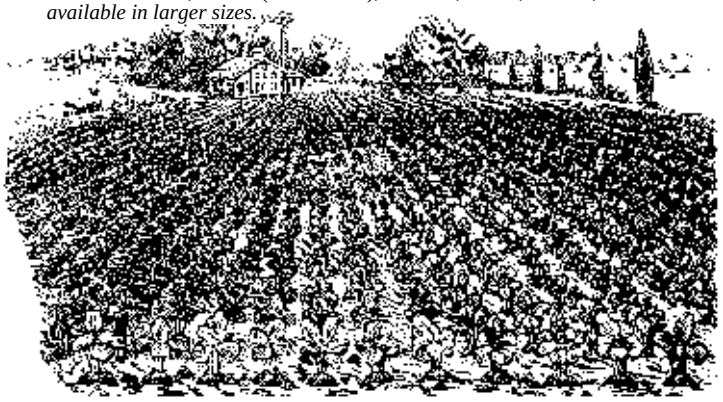
Purple Top White Globe Turnip (50 days) *B. r.* Popular variety with purple tops, white bottoms and white flesh. An heirloom from before 1880.

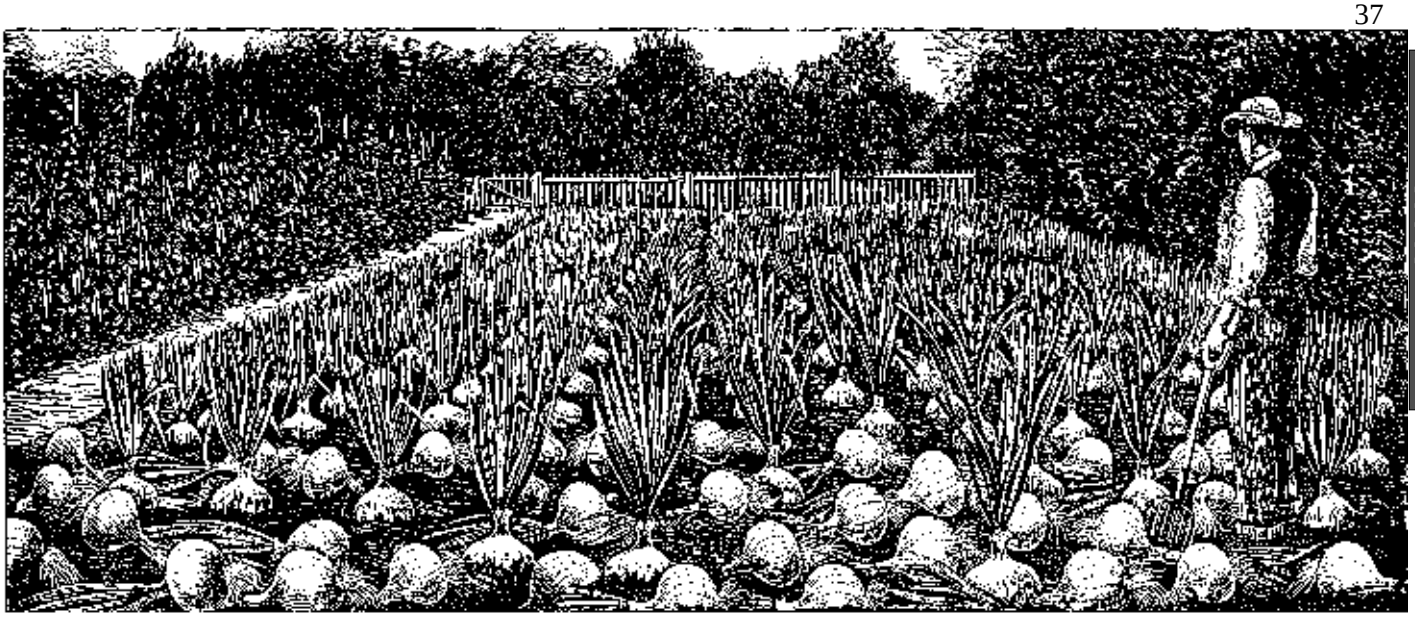
2378WG Purple Top White Globe Turnip ②③ **A**=1/8oz, 60¢ (~1750 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $20.00

2379WO Purple Top White Globe Turnip OG CCOF-certified. ③ **A**=1/8oz, 70¢ (~1750 seeds), **B**=1/2oz, $1.20, **C**=1oz, $2.00, **D**=4oz, $3.50, **E**=1lb, $7.00, **K**=5lb, $30.00

2384RR Red Round Turnip (55 days) *B. r.* Customers have asked for Ohno Scarlet Turnip, which is no longer commercially available. Instead, we offer Red Round which is almost identical. Red Round's root is actually a little rounder than Ohno's, but with the same tennis ball size and bright red skin. Inside flesh is white with a bit of variable rose blushing. Stunning sliced on a crudité platter. ⑤ **A**=1/8oz, $1.00 (~850 seeds), **B**=1/2oz, $3.00, **C**=1oz, $5.00, **D**=4oz, $16.00, **E**=1lb, $60.00. *No size K, order size E.*

2392GO Gilfeather® Turnip OG (85 days) *B. n.* We welcome back Gilfeather, an heirloom that has come down in folklore as a turnip but belongs with the rutabagas. Either developed or discovered by John Gilfeather (1865-1944) of Wardsboro, VT, in the late 1800s. Gilfeather, a lanky secretive man, is said to have cut the tops and bottoms off his turnips, so that no one else could propagate them. Nevertheless, some seeds escaped to a neighbor who gave them to market growers William and Mary Lou Schmidt, who salvaged, then commercialized, the variety. Gilfeather is sweeter and later to mature than other turnips, not woody even at softball size, and tastes better after frost. Enjoy its tender mild spineless greens as well as its sweet white flesh. Two lots, one BSO-certified and one NOFA VT. ① **A**=1/16oz, $1.00 (~500 seeds), **B**=1/4oz, $3.00, **C**=1oz, $9.00. *Not available in larger sizes.*





ALIMENTARY ALLIA *Allium* spp.

1/16 oz packet about 450-600 seeds, 1 oz 7,000-10,000. Start indoors in Feb. or March (April is too late for good-sized roots) and transplant out in spring almost as soon as the ground can be worked. Set leeks 6-12" apart, onions 4-6," scallions 3-4" in trenches in well-dug beds with generous quantities of organic matter. Avoid transplanting next to grass strips; slugs love to dine on tiny allium seedlings. Irrigate seedlings whenever the topsoil dries out. Onions are day-length sensitive.The earlier they are set out, the more chance they have to make top growth while the days are lengthening. The more top growth, the greater the bulb size. After Summer Solstice they begin bulbing. After half the onion tops fall, push over the remainder and harvest within a week. Field cure in the sun about 10 days until dry, covering with a tarp in wet weather. Curing is essential for long storage. Hang sacks in a cool dry well-ventilated place, periodically removing sprouting or rotting bulbs. Onions survive light frosts. Onion and leek seed is short-lived. Retest 1-year-old seed before using. Discard anything older.

LEEKS *A. porrum*

All open-pollinated. Leeks have become a mainstay in our kitchens throughout the fall. Early leeks have tall shanks above ground and should be harvested before severe frosts. Hardier leeks have broader, shorter shanks and will hold till November. Leeks brought into the root cellar will survive almost the entire winter if heeled into dirt. See also #6411.

2408LN Lincoln (75 days) We sprang a serious leak in our selection when the reign of King Richard (1978-2002) came to an unexpectedly abrupt end. Fortunately, our knight trialers were quick to the rescue. With Lincoln, there was no interregnum. If anything, Lincoln's shanks are even longer and more elegant than its predecessor's. Nor are they lacking in the delicate sweet flavor all of us look for in a good leek. Ready in late August, will withstand light frosts, but should be harvested before the really cold nights of late October. Actually, Lincoln has a dual use. Sown thickly like scallions, it can be harvested as finger-thick leeks and bunched. We didn't try this, but suspect it would go over well with chefs and in upscale direct markets. Maturity would be 3-4 weeks earlier for baby leeks. *Again this year seed will arrive late. We expect to ship around mid-March. Please do not order if you require seed sooner.* ④ **A**=1/16oz, $1.60 (~450 seeds), **B**=1/8oz, $3.00, **C**=1/2oz, $10.00, **D**=1oz, $16.00, **E**=4oz, $60.00, **K**=1lb, $200.00

2414MP Imperial (85 days) This beautiful Danish leek attracts our attention in September. Its shaft combines impressive stoutness with good length, for a large edible area on each plant. Rated by our supplier as a medium-early autumn leek. It holds for us until mid-October when the nights get really frosty. ④ **A**=1/16oz, $1.00 (~500 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**=4oz, $20.00, **K**=1lb, $70.00

2426SF Siegfried (120 days) Dropped from the trade. *Not available in 2004.*

SCALLIONS *A. fistulosum*

Evergreen Hardy White (65 days) Open-pollinated. Also known as Nebuka, a perennial bunching onion. If overwintered in the ground, develops clumps of scallions in the spring which can be harvested or divided and replanted. A welcome treat in April, one of the first fresh foods. Heirloom from Japan originated in the 1880s.

2439EV Evergreen Hardy White ③ **A**=1/16oz, 80¢ (~575 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.00, **E**=4oz, $7.00, **K**=1lb, $25.00

2440EO Evergreen Hardy White Scallion OG (65 days) CCOF-certified. ③ **A**=1/16oz, $1.10 (~575 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $12.00, **K**=1lb, $42.00

SHALLOTS *A. cepa* (aggretatum group)

2441PR Prisma (100 days) F-1 Hybrid. Dependably early and red to the core. That's Prisma, a delicious long-day shallot with a strong onion flavor. Sow inside at the same time as onions and leeks or direct seed outdoors in early spring 1/2" apart in a 2-4" wide band. For clusters sow more thinly. Each seed will produce 2-5 bulbs, red-purple with a high gloss finish and angular edges. Always ready by September 1 and still rock-hard the following April. Nikos' stored until July. Our first shallot from seed. ④ **A**=0.5g, $2.00 (~150 seeds), **B**=1g, $3.50, **C**=2g, $6.00, **D**=4g, $10.00, **E**=14g, $30.00, **K**=28g, $50.00

ONIONS *A. cepa*

2444CW Crystal White Wax (70 days) Open-pollinated. These 1 1/2" pearly white bulbs ripen around the same time as peas for early summer baby onions or pickles. ③⑤ **A**=1/16oz, 80¢ (~850 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.50, **E**=4oz, $8.00, **K**=1lb, $28.00

2449NE New York Early (98 days) *Crop failure. Not available in 2004.*

2451QT Quantum (98 days) F-1 hybrid. Are you ready to take a quantum leap in the size of your early onions? We've never seen an onion size up so fast. We got 1 3/4 pounders and the tops were already fallen in August. They were ready for storage Sept. 1. A high percentage of the dark-yellow bulbs made 3" diameters or larger. Moderately good keeper lasts till late March. Resitant to PR. ⑤ **A**=1/16oz, $1.00 (~590 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**=4oz, $28.00, **K**=1lb, $110.00

2457SS Super Star (100 days) F-1 hybrid. Well-named for its exceptional size, striking white color and amazing uniformity, but doesn't live up to its name as a keeper. The best white onion we've seen, knocked our socks off in Donna Dyrek's trial. Impressed the AAS judges, too, who made it the first hybrid onion ever to win in the award's 67-year history. A Sweet Spanish type which is milder, sweeter and larger than the original. Its day-length neutrality gives it wide adaptability and its large size (1-2 lb.) is most uncommon for such an early maturer. Stores only till January. Tolerant to PR. Developed by Seminis. ⑤ **A**=1/16oz, $1.20 (~590 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $8.00, **D**=1oz, $15.00, **E**=4oz, $55.00, **K**=1lb, $215.00

2469CD Candy (102 days) F-1 hybrid. "Candy, Candy, Candy! We can grow it! It cures nicely! It stores well! In humid Virginia it's a miracle," exults Pam Dawling of Twin Oaks Co-op. Candy does well up here, too. Adaptable in all parts of the country because it is a cross between a long-day onion and a short-day onion. In our region that means Candy should be planted in spring, harvested in fall and will store all winter like a long-day onion, while retaining the typical mild sweet flavor of a short-day onion. Candy's perfectly round globes have small necks, beautiful golden-brown color, thinner skin than Copra and attractive white flesh. They grow to jumbo size, slightly larger than Copra, yet usually make single centers. ⑤ **A**=1/16oz, $1.20 (~390 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $8.00, **D**=1oz, $15.00, **E**=4oz, $55.00, **K**=1lb, $210.00

2472CP Copra (104 days) F-1 hybrid. Hard medium-sized storage onions with blocky round shapes and thin necks. The standard storage onion for commercial growers. We sold 60 one oz. and 14 four oz. packages last year. ④ **A**=1/16oz, $1.10 (~445 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $7.00, **D**=1oz, $13.00, **E**=4oz, $45.00, **K**=1lb, $180.00

2474CD Clear Dawn ECO (104 days) Open-pollinated. We are pleased to report our first success in small-farm onion seed production. Maine grower Jack Kertesz deserves credit; completing the cycle with these biennials is no mean feat. The best open-pollinated storage onion, Clear Dawn was bred out of Copra by biodynamic market growers. Our stock seed comes from Turtle Tree Seed. Dawn is slightly smaller than Copra with the same high quality and great storage capability. *Seed in short supply; order early.* ① **NEW! A**=1/16oz, $2.00. *Not available in larger sizes.*

2476MR Mars (104 days) F-1 hybrid. There may be no life on planet Mars but there is plenty of life in onion Mars and plenty of interest in growing it. It seems every time I visit an onion trial and ask "what's that gorgeous red one over there?" the answer is "Mars." Donna Dyrek at Loon Song Farm has been consistently impressed with its size, production and earliness. Bigger and more consistently round than Mambo, Mars is uniformly ready Sept. 1 in central Maine. Good storage into April. Purplish-red skin. ⑤ **A**=1/16oz, $1.10 (~390 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $7.00, **D**=1oz, $13.00, **E**=4oz, $45.00, **K**=1lb, $180.00

2477BC Borrettana Cipollini (105 days) Open-pollinated. Italian heirloom makes the quintessential boiling and braising onion. Shaped like a button, up to 4" wide (normally 3") but less than 1" thick. Flattened spheres with shiny golden skin slightly brighter than Copra's. Fine-grained flesh has a very mild yet well-developed flavor. Appreciated in soups, stir-fries and shish kebab. Braids beautifully and keeps till late winter. ② **A**=1/16oz, 90¢ (~520 seeds), **B**=1/8oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $18.00, **K**=1lb, $70.00

2478BR Bennie's Red (105 days) Open-pollinated. Earlier and larger than most early red onions. Deep burgundy-red skin with red interior rings after curing. Needs 4" spacing for best performance. Keeps until late winter, longer than the old standard Southport Red and on a par with Redman. ③ **A**=1/16oz, 80¢, **B**=1/8oz, $1.60, **C**=1/2oz, $2.50, **D**=1oz, $4.00, **E**=4oz, $7.00, **K**=1lb, $25.00

2479PR Prince (105 days) F-1 hybrid. Several commercial growers requested Prince, an outstanding storage onion from the same breeder as Copra. Prince is slightly larger than Copra and stores almost as long. A long-day type adaptable to northern latitudes, Prince features classy uniform blocky large globes with vigorous tops that finish off to refined necks. Its satiny brownish-yellow skins adhere well even after long storage. ④ **A**=1/16oz, $1.10 (~440 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $7.00, **D**=1oz, $13.00, **E**=4oz, $45.00, **K**=1lb, $180.00

2480GS Greek Salad (105 days) F-1 hybrid. These enormous deep red globes consistently grew to 1 1/4 lb. at both our trial sites. Very uniform, easy to grow, and well-adapted to Canada and the northern U.S. Kept till March last winter, getting sweeter as they stored. Stock up on capers, olive oil, red wine vinegar and feta cheese, slice up some thick juicy rings and prepare for the Greek salad of your dreams. ⑤ **A**=1/16oz, $1.00 (~425 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $6.50, **D**=1oz, $12.00, **E**=4oz, $45.00, **K**=1lb, $160.00

2484AC Ailsa Craig (110 days) Open-pollinated. Also known as Exhibition. How much potential energy in a seed? Jason Kafka of Checkerberry Farm in Parkman grew 8,000 lbs. of onions from 3 1/2 oz. of Ailsa Craig seed on only .4 acre. That's a multiplication of better than 36,000 to one and production of ten tons to the acre! We're not exaggerating when we talk about 1 1/2-3 lb. onions from this variety. Jason grows hundreds in that range. This is the onion to grow to enter in the Exhibition Hall of your county fair. The enormous slightly oval pale straw-colored globes are sweet, mildly pungent and will store a short while. A cross between Danvers Yellow and Cranston's Excelsior introduced by David Murray in 1887, Ailsa Craig was named after Ailsa Crag, a small steep-sided island off the west coast of Scotland. ④ **A**=1/16oz, $1.20 (~400 seeds), **B**=1/8oz, $2.20, **C**=1/2oz, $8.00, **D**=1oz, $15.00, **E**=4oz, $55.00, **K**=1lb, $215.00

2491DG Delgado (118 days) F-1 Hybrid. Absolutely the best large storage onion, growing uniform 1 1/2 lb. roots, as big or bigger than Ailsa Craig, but keeping almost forever. Not finished till early October; some tops need a noodge to go down. Hard as a rock, we bet Pedro Martinez could get some velocity using these, and he might even break a few bats. ④ **A**=1/16oz, $1.20 (~515 seeds), **B**=1/8oz, $2.20, **C**=1/2oz, $8.00, **D**=1oz, $15.00, **E**=4oz, $55.00, **K**=1lb, $220.00

2498WW Walla Walla Sweet Spanish (125 days) Open-pollinated. This onion became famous in the Pacific Northwest for its juicy sweet flavor. In the warm climate of Walla Walla, Washington, it can be wintered over. In our harsher climate, it must be sown in the spring for fall harvest. Large onions are known for their mild flavor as soon as they come out of the ground. They will not store. ①③ **A**=1/16oz, 90¢ (~435 seeds), **B**=1/8oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $20.00, **K**=1lb, $70.00

SPINACH *Spinacia oleracea*

Packet sows 45 ft, 1 oz plants 150-200 ft. Very hardy. Must be planted as soon as the ground can be worked in the spring to avoid early bolting. For fall crop try late Jul-Aug sowing; to overwinter, sow late Aug-Sept. Heavy nitrogen requirements, but avoid applying high-nitrogen fertilizers shortly before harvest to prevent high nitrate levels in the leaves. Pick large leaves often for heavier production.

2512LY Olympia (38 days) F-1 hybrid. Spinach breeder John Navazio has been spreading the word that spinach performs best as a fall crop. Our customers have gotten the message, investing in around 1,500 packages annually. Fast-growing Olympia was the star performer of our fall taste test instigated by Navazio, producing enormous yields of mostly smooth leaves up to 5x6". Olympia is almost entirely lacking in that oxalic acid taste that burdens some varieties; its mild flavor goes down easy. Not recommended for spring planting when it bolts quickly, but excellent for overwintering. Resistant to DM 1,2,3. ④ **A**=1/4oz, 80¢ (~660 seeds), **B**=1/2oz, $1.40, **C**=1oz, $2.50, **D**=4oz, $6.00, **E**=1lb, $18.00, **K**=5lb, $85.00

2516SS Indian Summer (39 days) F-1 hybrid. A high-yielding dark-green spinach with partly crinkled leaves. Seems to require warmer soil than Long Standing Bloomsdale, but is much more bolt-resistant in warm weather. Resistant to DM1 & 2. *This may be the last year Indian Summer is commercially available. Seed in short supply; order early.* ② **A**=1/4oz, 70¢ (~350 seeds), **B**=1/2oz, $1.20, **C**=1oz, $2.20, **D**=4oz, $4.50, **E**=1lb, $10.00. *Not available in size K.*

Long Standing Bloomsdale (42 days) Open-pollinated. The standard crinkled-leaf spinach. Very good cold soil emergence. Recent hybrids surpass it in production and bolt resistance. David Landreth, founder of the Landreth Seed Company, developed the original Bloomsdale Spinach, forerunner of this type. Our strain came from Europe in 1925. Burpee sold it for a dime a packet and 35¢ per ounce in 1955.

2540LS Long Standing Bloomsdale (42 days) ②③ **A**=1/4oz, 60¢ (~350 seeds), **B**=1/2oz, $1.00, **C**=1oz, $1.60, **D**=4oz, $3.00, **E**=1lb, $5.00, **K**=5lb, $22.00

2541LO Long Standing Bloomsdale OG CCOF-certified. ③ **A**=1/4oz, 70¢, **B**=1/2oz, $1.30, **C**=1oz, $2.50, **D**=4oz, $5.00, **E**=1lb, $11.00, **K**=5lb, $48.00

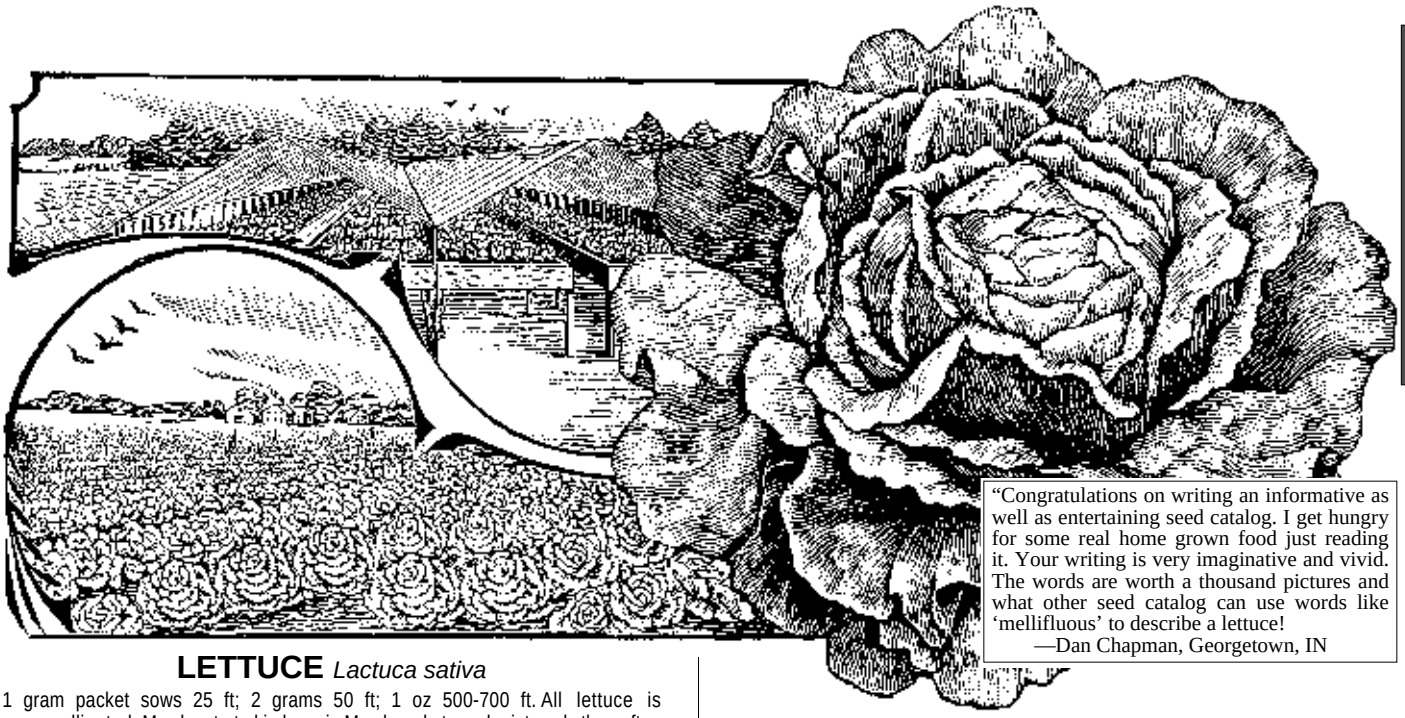
2550TY Tyee (44 days) F-1 hybrid. What do you sow when mud season turns overnight to summer as it so often has in recent years? Tyee is the only spinach that has a ghost of a chance when the heat comes on that fast, outperforming other savoyed types both in yield and holding ability. This dependability has long made it our favorite crinkled-leaf spinach and accounts for its widespread appeal both among home gardeners and commercial growers to whom we've sold more than 1,000 lb. of seed over the last four years. Upright habit. Tolerant to DM 1,3. ④ **A**=1/4oz, 80¢ (~350 seeds), **B**=1/2oz, $1.30, **C**=1oz, $2.40, **D**=4oz, $5.00, **E**=1lb, $16.00, **K**=5lb, $78.00

Giant Winter (45 days) Open-pollinated. Selected for its cold hardiness. Recommended for late fall crops, winter greenhouse crops, or overwintering under mulch. Large medium green semi-savoyed leaves.

2555GW Giant Winter ② **A**=1/4oz, $1.00 (~500 seeds), **B**=1/2oz, $2.00, **C**=1oz, $3.00, **D**=4oz, $6.00, **E**=1lb, $20.00. *No size K, order size E.*

2556WO Giant Winter OG WA-certified. ① **A**=1/4oz, $1.20, **B**=1/2oz, $2.20, **C**=1oz, $4.00, **D**=4oz, $10.00, **E**=1lb, $30.00

2592NZ New Zealand Spinach (52 days) *Tetragonia tetragonioides* Open-pollinated. Discovered in New Zealand in Queen Charlotte's Sound during Captain Cook's 1770 voyage. But don't be fooled by the spinach in its name; this is not a true spinach. Doesn't look like one or taste like one, though some find it an acceptable substitute because it stands through the hot summer when true spinach bolts. Will withstand frosts down to the low 20s. Nut-like seeds are customarily slow poor germinators, will be quicker if you soak them before sowing. Be patient and don't give up too soon. Only a few plants are needed to fill in your patch because Tetragonia sprawls. ③ **A**=1/4oz, 60¢ (~88 seeds), **B**=1/2oz, $1.20, **C**=1oz, $2.20, **D**=4oz, $4.00, **E**=1lb, $10.00, **K**=5lb, $45.00



"Congratulations on writing an informative as well as entertaining seed catalog. I get hungry for some real home grown food just reading it. Your writing is very imaginative and vivid. The words are worth a thousand pictures and what other seed catalog can use words like 'mellifluous' to describe a lettuce!
—Dan Chapman, Georgetown, IN

LETTUCE *Lactuca sativa*

1 gram packet sows 25 ft; 2 grams 50 ft; 1 oz 500-700 ft. All lettuce is open-pollinated. May be started indoors in March and at regular intervals thereafter, or sowed outdoors as soon as ground can be worked. Most varieties won't germinate at temperatures above 75˚. Hardy. All save icebergs tolerate heavy frost. Grow best in cool weather with ample moisture, many kinds suffer bottom rot and tipburn in heat; select summer varieties carefully. Sow every 2 weeks for continuous supply. Lettuce will not head unless thinned frequently & ruthlessly to final distance of 1'. Heavy nitrogen feeders.

Early last century people discovered that lettuce can be eaten raw. Now people are rediscovering cooked lettuce. Try it in soups or wilted over sautéed onions.

Our favorite lost heirloom variety: Henderson's Perfected Salamander lettuce (1902). We wonder what an unperfected Salamander tasted like!

Varieties average 875 seeds/1g pkt, or 1,750 seeds/2 g packet.

LOOSELEAF and OAKLEAF

Black Seeded Simpson (42 days) The earliest and most popular looseleaf variety. Large loose crumpled juicy light-green leaves slightly ruffled and blistered. Inner leaves tender and well blanched. Does not stand heat well; sow early as the ground can be worked. Heirloom variety introduced by Peter Henderson & Co. of New York in the 1870s.

2711BS Black Seeded Simpson ③ **A**=2g, 50¢ *Not available in larger sizes.*

2712BO Black Seeded Simpson OG CCOF-certified, ③ **A**=2g, 70¢, **B**=4g, $1.20, **C**=14g, $2.00, **D**=28g, $3.50, **E**=112g, $8.00, **K**=448g, $21.00

2713GI Green Ice (45 days) Customers asked us to list Burpee's well-known variety. This shiny crinkly looseleaf with fringed leaf margins is firm and crunchy in salads. Slow to bolt, but gets tough in the centers. A Burpee advertisement unearthed from the March 1974 issue of *Organic Gardening and Farming Magazine* revealed that Green Ice, a cross between a compact butterhead type and large looseleaf varieties, was thirteen years in the making before commercialization. After the passage of the 1970 Plant Variety Protection Act, Green Ice became the first variety to be patented. The patent has since expired. ②⑤ **A**=1g, 80¢ (~900 seeds), **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2717BR Brunia (46 days) Vilmorin's bronze oakleaf type closely resembles Cocarde. Its rusty and green colors, combined with its perfect form, make Brunia one of the most striking in the lettuce patch. A longtime commercial standby now winning friends among home gardeners. ⑤ **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $10.00, **E**=28g, $18.00, **K**=112g, $70.00

Salad Bowl (46 days) Bright-green notched leaves form compact rosette. Stands hot weather better than Black Seeded Simpson. 1952 All-America winner.

2722SB Salad Bowl (46 days) ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $11.00

2723SO Salad Bowl OG (46 days) CCOF-certified. ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $10.00, **K**=448g, $28.00

Red Salad Bowl (46 days) Compact rosettes of spectacular bronze-red oakleaves. One of our most popular lettuces. A staple mesclun ingredient. Introduced in 1955.

2728RS Red Salad Bowl (46 days) ②③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $11.00

2729RO Red Salad Bowl OG (46 days) CCOF-certified. ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $9.00, **K**=448g, $25.00

2731CO Cracoviensis OG (47 days) Of all the lettuces Seed Savers curator M. Schultz has shared with me, this is my absolute favorite, unlike any other in size, shape or colors. Cracoviensis is where the red meets the green, making a dazzling twisting rosette with heavy purple accenting, especially towards the center. Plants are fast growing and very large. Although relatively rapid bolters, their tender buttery flavor doesn't give way to bitterness even after they bolt. May be worth a try for overwintering in warmer areas. Customers in New Jersey and Massachusetts have reported success. Listed as a specific type of lettuce in *The Vegetable Garden* by Vilmorin-Andrieux (1885). OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $11.00, **K**=112g, $40.00

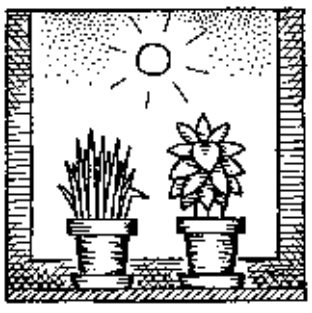
2734SE Simpson Elite (48 days) Despite its name, similar size and light green color, Simpson Elite is a succession variety rather than a replacement for Black Seeded Simpson. Elite doesn't germinate as well in cold soil, or grow as quickly as BSS, but way surpasses the heirloom in its ability to stand heat without bolting. With Elite, you can extend the Simpson season by at least 2-3 weeks. PVP applied. ⑤ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $3.50, **E**=28g, $6.00, **K**=112g, $15.00

2738AO Antares OG (48 days) A shimmery pink and bronze oakleaf growing vigorously to magnificent size. The extra-frilled finely cut bright leaves are colorful and tender, not bitter even in early July. Antares, especially when started indoors, transplanted early in spring, and allowed ample space, puts on a terrific show. Bred by Frank Morton of Wild Garden Seed in Oregon. (See our 1999 catalog for a profile of Morton.) OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $55.00

2740DO Green Deer Tongue OG (48 days) Also known as Matchless, this venerable heirloom goes all the way back to the 1740s. One of the only deer tongues you will ever want to see in your garden! Characteristic thick green pointed leaves radiating from a compact center. Slow to bolt. Has a rich nutty flavor that doesn't turn bitter. MT-certified. ① **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.80, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2754PZ Prizehead (48 days) Crinkly outer leaves tinged with red. Superior flavor. Very popular market type. Bolts in heat. Dates back to the nineteenth century. ③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

2760RS Red Sails (49 days) Petoseed's 1985 All-America winner has become almost synonymous with red leaf lettuce. Red Sails is slow to become bitter or to bolt even in heat, and a most attractive large plant with purplish red-splashed leaves. New Hampshire market grower Rick Estes says, "Nothing (among reds) comes close to Red Sails for dependability and consistent harvesting for a wholesale market. Heat, cold, drought, wet—it makes no difference. Red Sails comes shining through." Along with Butter-crunch, our most popular lettuce, over 35 lbs. in each of the last two years. PVP. ⑤ **A**=2g, 80¢ (~1500 seeds), **B**=4g, $1.50, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $14.00, **K**=448g, $50.00



2764BO Blushed Butter Oaks OG (49 days) This Fedco introduction in 1997 aroused immediate interest. One of a new class of lettuces developed by Frank Morton. Best described as a compact oakleaf butterhead, with a delightful combination of pink and green colors and a buttery taste, Blushed Butter Oaks was a hit with everyone who saw it or sampled it at our trial. Has some frost tolerance. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2766GO Blushed Icy Oak Gene Pool OG (49 days) Here's another of Frank Morton's oakleaf creations, selected out of the Blushed Butter Oaks gene pool. Its rich juicy sweet leaves are tinged red on the outside with green centers. Not buttery like #**2764**, instead has crisp iceberg texture with enriched oakleaf flavor. Gets bitter only in very hot weather and is somewhat slow to bolt. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2767DO Les Orielles du Diable OG (Devil's Ears) (50 days) One of the lovely rare treasures maintained by the Abundant Life Seed Foundation. A standout in our plots the past three years, where we have greatly preferred it to Red Deer Tongue. This is deer tongue lettuce with real color and good heat tolerance. Tasty glossy leaves deeply tinged with burgundy make starlike rosettes. We enjoyed its nutty texture and bitter-free flavor. One of the last to bolt. Until Frank Morton is ready to bring his Really Red Deer Tongues to commerce, Devil's Ears is the best available of this type. ID-certified. ① **NEW! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $35.00

2768LO Lingue di Canarino OG (Canary Tongue) (50 days) What do you get when you combine Devil's Ears with Canary Tongue? The beginnings of good mesclun. Lingue is a refined oakleaf type that grows larger and stands longer than the original Oakleaf without bolting or getting bitter. Mild-tasting light-green 8" rosettes. A good performer in fall. Last offered by Fedco in 1992. CCOF-certified. ① **BACK! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $3.00, **D**=14g, $5.00. *Not available in larger sizes.*

2769WL Waldmann's (50 days) Large handsome crinkly-leaved heads of bright green lettuce. An attractive green-leaf Grand Rapids type for market. Appearance and texture superior to Green Ice, but not as heat tolerant. Gets bitter toward mid-July. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

2771RO Royal Oakleaf OG (50 days) The most attractive green oakleaf, recommended for market growers. Darker, larger and fancier than other green oakleaf types. Our supplier calls it the "Rolls Royce of oakleaf lettuces." We agree. CCOF-certified. ③ **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $2.80, **D**=14g, $7.00, **E**=28g, $11.00, **K**=112g, $32.00

2773HO Hyper Red Rumple Waved OG (50 days) If you are drawn to really deep red lettuces, consider Hyper. Selecting from a cross between Valeria, a very red cold-tolerant Lollo Rossa type, and Wavy Red Cos, an undulating savoyed red romaine, Frank Morton bred Hyper to accentuate the pigmentation and the ruffled appearance. The stunning-looking result tastes good with a pleasing texture. Holds for a while in July before succumbing to heat. Good cold tolerance. Resistant to X, SC, DM and tipburn. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $56.00

2774RF New Red Fire (51 days) Offered as a substitute for Red Sails in 1992, Fire gained a well-deserved popularity with commercial growers. Has Sails' characteristic ruffled leaves, similar though slightly lighter coloration, and good size. Best of all, it has been absolutely the last to bolt in our lettuce patch, lasting as late as July 29! "Handles *both* heat and cold better than any other lettuce I have ever tried in my 26 years of gardening," says Carol Krehbiel of Falmouth, KY. Seed from Japan. ⑤ **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $10.00, **E**=28g, $18.00, **K**=112g, $65.00

2779RM Rossimo (52 days) Rossimo, Royal Red's look-alike twin, spellbinds with its terrific bright red color in late June and early July. Even in a patch with 110 types of lettuce in variegated colors, its brilliant rich cherry-red crinkly-leaved open head really stood out! Grows slowly but tolerates heat fairly well. ② **BACK! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2783SB Slobolt (53 days) Slow growth in its early stages is the key to Slobolt's success as a summer lettuce. A Grand Rapids-type with much paler green leaves than Waldmann's, Slobolt will hold well into July without bolting. Slobolt is versatile: one grower in New York reported good results growing it in winter under lights as well as in summer tightly spaced in the garden. Introduced 1946 by the USDA. ⑤ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $8.00, **K**=448g, $25.00

2788MO Merlot OG (32 days baby, 60 mature) William Woys Weaver believes that this lettuce is destined to become a classic. Wherever he has planted it in his garden "every single visitor has stopped to comment (and when my back has turned to pull off leaves to eat.)" Always a standout in our trials, its intense burgundy color the richest we have ever seen. The Dutch company who bred it in Europe named it Galactic, but Cook's Garden trumped them by calling it Merlot. This merlot adds as much to your baby salad mix as a good wine adds to your dinner, providing incredible color, excitement and full-bodied flavor. Slow to grow, slow to bolt, plants never achieve much size or density, but are ideal for the baby leaf trade. OT-certified. Resistant to X, DM, SC and tipburn. ① **A**=1g, $1.00, **B**=2g, $2.00, **C**=4g, $3.80, **D**=14g, $13.00, **E**=28g, $25.00, **K**=112g, $90.00

2789MB De Morges Braun (64 days) We owe our awareness of this unique lettuce to M. Schultz. No other lettuce (and we've grown hundreds) can match its shimmery color. As it matures, it grows upright like a romaine, its centers forming a green contrast to the pink outer leaves. Its texture and taste are as noteworthy as its color—smooth, buttery and not at all bitter. De Morges grows slowly and is one of the last to bolt. Our trialer called it the "bronze beauty." ① **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00. *Not available in larger sizes.*

CUTTING LETTUCE

2793MN Monet (53 days) Shortly after arriving in Giverney, French impressionist Claude Monet (1840-1926) had his gardeners replace the hedges with flower gardens. I wonder how he would have depicted our lettuce trials after I allowed volunteer red amaranth, sweet annie and carnation poppies to intersperse with the lettuces. His namesake in the lettuce patch looks more like a frisée endive than a lettuce, but that's not surprising because Petoseed bred Monet's deeply indented curly green crisp textured leaves to be cut for mesclun. Monet's close cousin Tango, while unknown in painting circles, is better known in the seed trade, but we prefer Monet's darker green color. Although plants grow 7-8", don't let the leaves go unsnipped too long because this Monet will bolt in heat. ⑤ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2796LR Lollo Rossa (58 days) Frizzy foliage is light red on top, light green at base, making for a stunning contrast. Very cold hardy. Can be used to accent or garnish salads, or as an ornamental. Quite the rage in gourmet restaurants; a mainstay of our mesclun. This strain is not quite as colorful as several others we've grown, but it is milder, less bitter, and much slower to bolt. Introduced 1987 by Royal Sluis. ③ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

BIBB and BUTTERHEAD

2803TT Tom Thumb (46 days) Miniature butterhead type which makes a small tightly bunched head early. Outer leaves light-medium green, centers creamy white with a pleasant buttery taste. Very attractive for early markets. Can be spaced quite closely as the heads seldom exceed 5" in diameter. William Woys Weaver has untangled its knotted history. It was introduced in England by H. Wheeler & Sons in 1858 and came to the States ten years later courtesy of James J.H. Gregory. ③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

2805BM Bronze Mignonette (46 days) This small ruffled bronze-tinged butterhead captivated me in the trials. Because Mignonette is only slightly larger than Tom Thumb, it is ideal for baby vegetable enthusiasts. Peter Henderson named and marketed it to several seed houses around 1898. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

Buttercrunch (50 days) A 1963 All-America selection developed by Dr. G. L. Raleigh at Cornell University. Dark-green outer leaves with creamy center heart. Slow to bolt. Our best-selling lettuce for fifteen consecutive years from 1982-96 until finally overtaken by Red Sails.

2811BU Buttercrunch (50 days) ②③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

2812BO Buttercrunch OG (50 days) CCOF-certified. ③ **A**=2g, 80¢, **B**=4g, $1.30, **C**=14g, $2.20, **D**=28g, $3.50, **E**=112g, $9.00, **K**=448g, $22.00

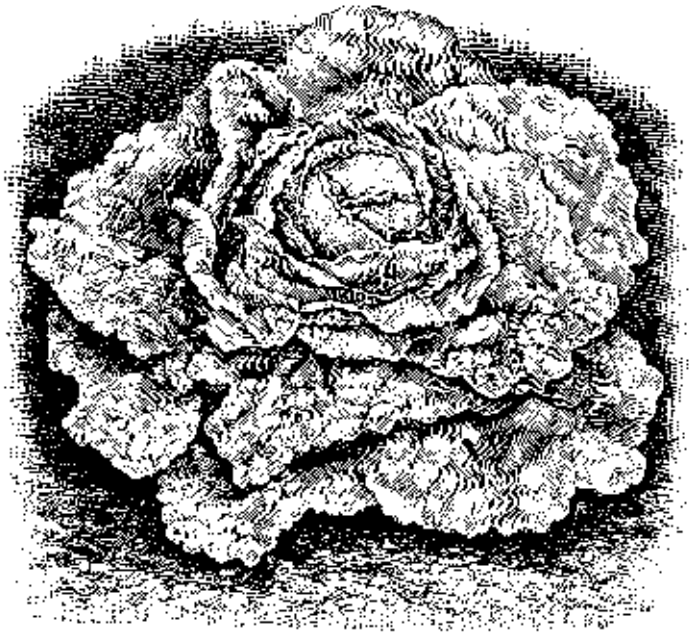
2816WM Winter Marvel (52 days) A large fancy light green butterhead recommended for fall production and overwintering where the climate permits. Grows rapidly, but bolts readily in summer heat. If you are sowing in spring for an early summer butterhead, be aware that the harvesting window is very narrow. ③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

2828PO Pirat OG (55 days) Also known as Sprenkel and Brauner Trotzkopf. Elegant bronzed large butterhead always looks good. Has a delicious smooth taste, and holds well except in prolonged wet spells. Pirat descended from Merveille des Quatre Saisons but is much more bolt resistant. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $35.00

2831SO Speckled OG (55 days) An ornamental bibb of spectacular beauty, its apple-green leaves splashed with maroon flecks. Will be a stunner in your garden or your salad. Flavor is mild. Makes small firm heads shaped like Merveille des Quatre Saisons, centers with soft leaves blanching creamy yellow. Mennonites brought seed in a covered wagon from Lancaster County, PA, to Ontario in 1799. Introduced into commerce in 1880 as Golden Spotted. Frank Morton, who got the stock seed from the Seed Savers Exchange, has been selecting to alleviate tipburn. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $60.00

2833SV Sweet Valentine (56 days) A real sweetheart of a lettuce, Valentine combines magnificent beauty with a mild sweet taste. Beginning as a large spreading bronzed butterhead with rounded veined leaves, Valentine evolves into a romaine shape. Has been very slow to bolt even in hot dry conditions. One of my favorites. ③ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $50.00

2839KS Kagraner Sommer (58 days) Makes elegant pale-green heads of exceptional quality. Its real claim to fame is its reluctance to bolt even in midsummer heat. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00



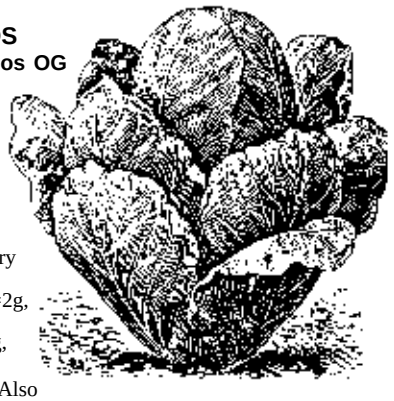
2843EM Esmeralda (60 days) Fancy butterhead lettuce at its best! The most elegant heart of any butterhead we've grown. Compared to Nancy, which it replaced, Esmeralda is slower growing, longer holding, with an even more buttery texture. Makes firm heads with large frames and butts and creamy yummy lime-green hearts. Always a topnotch performer in our trials, its fancy quality puts all the other butterheads to shame. PVP. Tolerant to DM1, 2A, 2B, 3, 4 and LMV. ⑤ **A**=2g, 70¢, **B**=4g, $1.20, **C**=14g, $2.50, **D**=28g, $4.00, **E**=112g, $10.00, **K**=448g, $32.00

2847KO Kinemontpas OG (60 days) Often Kinemontpas has been hard to find, so we are especially gratified to have an organic seed crop. This pale green butterhead grows enormous and is very slow to bolt even in heat. Darker green and larger than Kagraner Sommer, with a buttery texture and pleasing mellow taste. Lettuce collector M. Schultz brought this classic French heirloom to our attention. CCOF-certified. ① **BACK! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00

2849WD Winter Density Bibb/Romaine (60 days) Is it a bibb lettuce or a romaine? Doesn't matter, any way you look at it, its thick tender dark green leaves have superb eating quality. Starts out looking like a bibb. Wrapper leaves fold tightly, form a head like a romaine when mature. Combines the substance of romaine with the tender succulence of bibb. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $12.00

ROMAINE and COS

2854BO Blushed Butter Cos OG (49 days) Here is a combination butterhead/romaine with ruffled savoyed leaves dappled in an attractive palette of reds and greens. Best of all, Butter Cos was judged to be #1 for taste out of more than 100 lettuces in our 1996 trial. Remarkably crisp for such a buttery taste. A Fedco introduction. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $9.00, **E**=28g, $16.00, **K**=112g, $60.00



Forellenschluss (56 days) Also known as Freckles or Trout Back, an absolutely gorgeous romaine with the delicate taste and texture of a butterhead. No wonder it is the Seed Savers Exchange's favorite lettuce of the more than 900 varieties in their collection! Deep green leaves flecked with wine-red splotches distinguish this heirloom, from Arche Noah, the Austrian genetic preservation project. William Woys Weaver has traced it back to 1793, finding that it was a dwarf variety of Spotted Aleppo developed in Germany. More upright and cup-shaped than Speckled, with larger and darker splotches, and better heat tolerance. Just about the best-tasting of the 50 lettuces in our 1998 trial. Very buttery tender leaves may be harvested at the 4-6" stage for mesclun or allowed to grow full size for maximum ornamental benefit. We've sold more than 5,300 packets in the five years we've offered it

2857FS Forellenschluss (56 days) ② **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $3.00, **E**=28g, $5.00, **K**=112g, $13.00

2858FO Forellenschluss OG CCOF-certified. ③ **A**=1g, 90¢, **B**=2g, $1.70, **C**=4g, $3.00, **D**=14g, $5.00, **E**=28g, $9.00, **K**=112g, $25.00

2859MR Majestic Red (60 days) Fancy savoyed rich bronze-red leaves make Majestic positively gorgeous. Cylindrical "head" has somewhat spreading habit. One of the slowest-bolting romaines in our trial and much in demand in recent years. ② **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $20.00

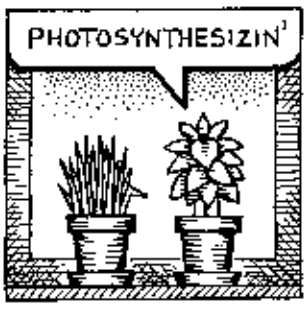
2861JO Jericho OG (60 days) If the walls are tumbling down on your summer lettuce, you might want to try Jericho, bred in Israel's hot dry climate to stand high temperatures. Jericho is an imposing Romaine. Under fertile conditions it can grow dense 2' tall heads of sword-shaped upright leaves weighing several lbs. Yet it remains crisp, juicy and unusually sweet. Ours was without tipburn even in late July and resisted bolting until July 24. Recommended by several customers in warmer regions. AGRIOR-certified ④ **NEW! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $40.00

2865RH Rouge d'Hiver (65 days) This is true Rouge d'Hiver, black-seeded, with much deeper red outer-leaf coloration than the merely tinged #**2872** Brune. Inner leaves are green with deeply bronzed tip, an attractive color combination which commands attention. Forms a semi-open romaine head with excellent flavor, especially in cold weather. Develops pronounced bitterness in summer heat. *Hiver* means "winter" and both Brune and Rouge are more suitable for fall production or overwintering than for summer. French heirloom from the 1840s. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $6.00, **K**=448g, $18.00

2867PL Plato II (65 days) We regret Seminis is no longer producing this variety. *Not available in 2004.*

2872BO Brune d'Hiver OG (65 days) A nineteenth century French heirloom, white-seeded Brune features broad flat pale green leaves tinged with bronze at the tips, somewhat redder in cold weather. (Rouge d'Hiver has much redder leaves.) Of striking appearance and very delicious as an early crop. Keep moist to retard bolting. Turns bitter in excess heat. OT-certified. ① **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $40.00

2879PI Parris Island Cos (68 days) The standard market romaine developed by Clemson University and the USDA in 1952. Upright heads 8-9" tall fold inward to form compact head. Interior greenish-white. Resistant to tipburn and bolting, even in heat. Irrigation improves its texture. Cos is an island in the Dodecanese region of Greece where this type lettuce was named. Parris Island is in South Carolina. ③ **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00



2883CO Crisp Mint OG (70 days) Also known as Erthel. Good size, exceptional crispness and sweet flavor without a trace of bitterness even in mid-July. This long-standing dark green romaine with ruffled leaves and open plant habit was a standout in our 1999 and 2000 trials. Some tendency to tipburn in July heat. Seed comes from the Seed Savers Exchange. OT-certified. ② **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

BATAVIAN

2903SR Sierra (50 days) A red-tinged French Batavian renowned for its extraordinary seedling vigor, resistance to tipburn and reluctance to bolt even in midsummer heat. Has compact upright form. Revered among market growers, it especially stands out in late July when others have rotted or bolted. We still had a marketable specimen on Aug. 6, 2000. "Crispy and tasty, my very favorite lettuce," says Bill Half of NOFA-NH. Developed by Vilmorin in 1992. PVP. Resists DM, tolerates LMV. ⑤ **A**=1g, $1.00, **B**=2g, $1.80, **C**=4g, $3.00, **D**=14g, $10.00, **E**=28g, $18.00, **K**=112g, $70.00

2917RG Reine des Glaces (57 days) Also known as Ice Queen. Gets its name from the spiky outer wrapper leaves which resemble a crown. We have located an Italian source for this scrumptious Batavian, which, in keeping with its type, makes a soft "head." Green convoluted rosettes with intricately toothed leaves lend Reine its distinctive beauty. Stands heat fairly well but will become bitter. ②**A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

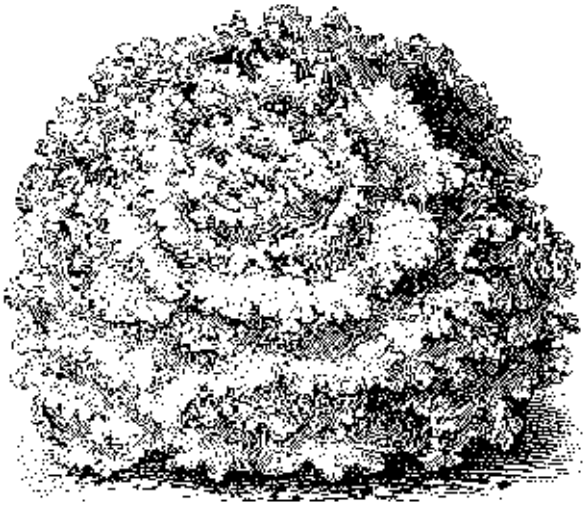
2919PB Pablo (68 days) Pablo bears a superficial resemblance to Rosa with much the same allure, but is a Batavian, not a crisphead. Its larger plants form looser heads of beautiful upright rosettes surrounded by wide wavy-edged flat leaves. Bronze coloration on the outside leaves contrasts strongly with the green interiors lending a striking metallic sheen. Slow-growing, very sweet and mild and extremely heat resistant. Always one of the last five to bolt in my extensive lettuce trials. Lovely enough to stand as an ornamental, but also one of the best-tasting in the patch. From Seed Savers Exchange. ② **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2921NE Anuenue (72 days) Johnny's deserves credit for popularizing Anuenue. Its mellifluous name (pronounced ah-new-ee-new-ee) means "rainbow," even though it is a uniform dark green. How could I have overlooked Anuenue for so long? Well, it sure doesn't look like much in June when most other lettuce is in full glory, but as the days get shorter and the heat gets stronger it really comes into its own. In late July and even early August, this 1987 product from the University of Hawaii has no peers for crispness and sweetness, and I will never again be without it for first-rate midsummer salads. Slow growth is its secret. It remains compact as it matures, surrounding its round tightly-packed heart with crisp outer leaves. There is never the faintest hint of bitterness. ③ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $12.00, **K**=112g, $40.00

CRISPHEAD or ICEBERG

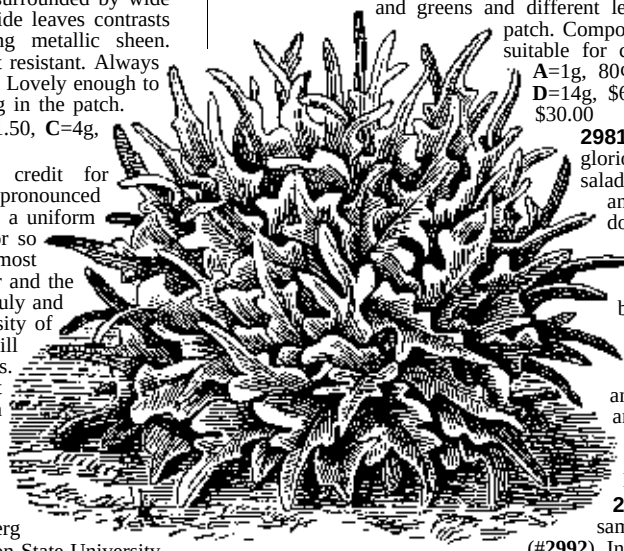
2925SU Summertime Iceberg (70 days) An iceberg that keeps its head in the heat! Summertime is an Oregon State University release with uniform compact dense medium-sized heads of excellent flavor. Harvest iceberg well into July with Summertime. Resistant to tipburn. ② **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $36.00

2931WW Webb's Wonderful (72 days) Comes to us from England via M. Schultz' lettuce collection. Webb's remarkable large-veined lightly savoyed dark-green leaves slowly form a very large crisphead with an exceptional buttery mild flavor reminiscent of the butterheads. Stands heat well, bolts reluctantly, never gets bitter. A delicious grazing lettuce. I start harvesting leaves long before heads form. ② **A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $12.00



MIXES

2980LM Lettuce Mix A mixture of lettuces with glorious contrasts of reds and greens and different leaf forms to create a beautiful patch. Components may vary, but all will be suitable for cut-and-come-again culture. ⑤ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00



2981LO Lettuce Mix OG This glorious collection will light up your salad patch with contrasting colors and leaf forms. At least a half dozen different lettuces, all suitable for cut-and-come-again culture. Exact components will vary according to availability but this is a high quality mix consisting of 100% certified-organic seed. For certified growers, organic supporters and customers wishing to avoid ④ and ⑤ suppliers. ③ **A**=1g, $1.00, **B**=2g, $1.80, **C**=4g, $3.20, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2983MM Mustard Mix The same mix found in our Mesclun (#**2992**). Includes mizuna, chervil, endives, sorrel, Red Giant mustard, arugula, and tatsoi. We may substitute one or two other varieties if necessary. ⑤ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $6.00, **E**=28g, $10.00, **K**=112g, $30.00

2986SM Summer Lettuce Mix A special selection of red, green and bronze lettuce varieties that will stand into late July without bolting. ⑤ **A**=1g, 90¢, **B**=2g, $1.60, **C**=4g, $3.00, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

2992ME Mesclun Once an exotic term from Provence meaning 'mix', now 'Mesclun' is a word in every American market growers' vocabulary. Ours consists of two packets: the lettuce mix described in #**2980**, and the mustard mix described in #**2983**. We may substitute one or two other varieties if necessary. Harvest these greens by cutting them with scissors. They will grow back, though you will need to water them in dry conditions. We recommend that you plant each packet in adjoining beds or rows so that the lettuces won't overwhelm the other greens. You can enhance your mesclun by adding other greens such as mâche, claytonia, and bronze fennel. Add edible flowers of garlic chives, nasturtiums, gem marigolds, borage, and mustard blossoms to lend further appeal to the mix by creating delectable color and taste contrasts. ⑤ **A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50, **D**=14g, $8.00, **E**=28g, $12.00, **K**=112g, $40.00

2993GO Greens Mix OG Versatile companion to #**2981**. At least five varieties, 100% certified organic seed, chosen from among beets, chard, arugula, mustards, orachs, purslane, chervil and kales suitable for mesclun or braising. Exact components will vary according to availability. Now you can have a fully organic salad, from seed to table. ③ **A**=1g, $1.00, **B**=2g, $1.80, **C**=4g, $3.20, **D**=14g, $8.00, **E**=28g, $15.00, **K**=112g, $55.00

Open-pollinated GREENS

AMARANTH *Amaranthus* spp.

3008HO Hopi Red Dye OG (46 days) *A. cruentus* Hopi was the best of the nine amaranths in our trial, displaying the deepest of burgundies. Stately plant grows up to 6' with a 1-2' inflorescence. Eat the young leaves in salads or slightly steamed, admire them young or old. The tiny black seeds are also edible, used in breakfast cereal to accentuate the taste and fragrance of honey. The Hopis make a scarlet food dye from the flower bract to color their ceremonial *piki* bread. Yanna Fishman of Union Mills, NC, suggests using Hopi in your floral arrangements. "When added to a flower bouquet it makes an ordinary clear jar look like an elegant purple-tinted vase as it colors the water." MOFGA-certified. ① **A**=1/16oz, $1.00, **B**=1/8oz, $2.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00. *Not available in larger sizes.*

3012TC Tricolor (50 days) *A. tricolor* Could easily be listed with everlastings for the tall purplish-red seed spires which it sends up late in the summer. In its youth the round green leaves overlaid with burgundy add colors to salads. Flavor is somewhat like pigweed. ② **A**=1/16oz, $1.00, **B**=1/8oz, $2.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00, **E**=4oz, $32.00. *Not available in size K.*

ARUGULA

Arugula (47 days) *Eruca sativa* Also known as Roquette or Rocket. Musky green will spice up your salad. Much better when grown for fall crop, as will bolt readily in heat. A prime ingredient in tangy mesclun mixes. Few people are indifferent to arugula: most of us love it, a few despise it. Little known 15 years ago, it is now so popular that we order it in 50-pound bags! A favorite of commercial growers who bought 70 K-size packets last year plus 115 lb. in bulk. A March 1999 article in *Hort Ideas* (**#9728** in our books section) documents Rocket's rich historical legacy in the Middle East where it has been used for thousands of years not just as a salad green, but for treating eye infections, and as a companion plant to suppress garden pests. The seeds were even used as a skin deodorant.

3022AR Arugula ②③ **A**=1/16oz, 60¢ (~820 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $2.50, **E**=4oz, $4.00, **K**=1lb, $13.00

3023AO Arugula OG CCOF-certified. ③ **A**=1/16oz, $1.00 (~820 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.00, **D**=1oz, $4.00, **E**=4oz, $7.00, **K**=1lb, $24.00

3027SY Sylvetta Arugula (50 days) *Diplotaxis arucoides* We are testing the various strains to find the best one. *Not available in 2004.*

CHARD *Beta vulgaris* (cicla group)

1/16 oz packet sows 12 ft, 1 oz plants 200 ft. Hardy. See also #6425. Salzer's 1915 catalog opines, "Swiss chard produces more food for the table than almost any other vegetable and it also requires less care; it yields a constant crop from July to winter."

Fordhook Giant (50 days) Broad white stems, leaves dark green and savoyed with white veins. The standard variety, introduced by Burpee in 1934. Strains of green swiss chard have been around since 1750.

3031FG Fordhook Giant ③ **A**=1/16oz, 60¢, **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $2.40, **E**=4oz, $4.00, **K**=1lb, $9.00

3032FO Fordhook Giant OG CCOF-certified. ③ **A**=1/16oz, 80¢, **B**=1/8oz, $1.50, **C**=1/2oz, $2.00, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $16.00

3033AR Argentata (55 days) I have a confession to make. I just don't consider most swiss chard edible. I'd rather eat some of the common garden weeds than chard. I'll make an exception for Argentata. Vigorous long-standing 2-3' plants tolerate a wide variety of weather conditions. Broad silvery-white midribs have a crispy sweet succulence missing from other chards and none of that oxalic aftertaste so common in other varieties. The deep green savoyed leaves also impart a mild clean flavor. A great substitute for spinach in omelettes, pasta dishes and other casseroles. ② **A**=1/16oz, 80¢ (~90 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $15.00, **K**=1lb, $50.00

3034PS Perpetual Spinach or **Leaf Beet** (55 days) Thanks to Pam Dawling of Twin Oaks Community Garden (VA) who suggested we add this member of the chard family. Leaf beet looks similar to garden variety swiss chards, but its stems are thinner, and its exceptionally tender leaves are smoother, not puckered. It tastes unlike any other chard, imparting a spinach-like flavor which lingers pleasantly. "Our cook loves your Perpetual Spinach," say the folks at the Zen Mountain Monastery in Mt. Tremper, NY. Unlike spinach, Perpetual lasts through summer into fall as it withstands light and moderate frosts. Pam calls it a "must-grow." ⑤ **A**=1/16oz, 60¢ (~130 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.60, **D**=1oz, $3.00, **E**=4oz, $5.00, **K**=1lb, $13.00

3036BL Bright Lights (56 days) Johnny's Selected Seeds won its second All-America award for making swiss chard commercially available in a rainbow of colors. Bright Lights bathes stems, midribs and secondary veins in a panoply of gold, yellow, orange, pink, intermediate pastels and dazzling stripes. The AAS judges were impressed by the tenderness of its dark-green to bronze leaves and the mildness of its chard flavor. Young seedlings respond to cut-and-come-again culture, ideal for mesclun. Bright Lights was developed by John Eaton of Lower Hutt, New Zealand, who found the parent plants, a red one and a yellow one, in a small home garden in 1977 and crossed them to standard green and white varieties, selecting for color and flavor over the next fifteen years. Johnny's worked the following years to preserve the strength and range of the individual colors. Always our most popular chard. We've gone through more than 110 lb. of seed in the last two years. ③ **A**=1/16oz, 90¢ (~55 seeds), **B**=1/8oz, $1.60, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $16.00, **K**=1lb, $60.00

Ruby Red Rhubarb (59 days) Deep crimson stalks, dark-green leaves. Very hardy. Beautiful for edible landscapes. Heirloom from Europe goes back to 1857.

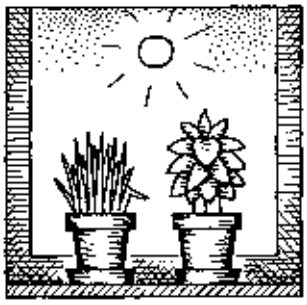
3040RR Ruby Red Rhubarb ③ **A**=1/16oz, 60¢ (~160 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.60, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $15.00

3041RO Ruby Red Rhubarb OG (59 days) CCOF-certified. ③ **A**=1/16oz, 80¢ (~72 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $2.50, **D**=1oz, $4.50, **E**=4oz, $10.00, **K**=1lb, $30.00

3042CL Charlotte (59 days) We regret that this superior-tasting chard is being dropped from the trade. *Not available in 2004.*

CHERVIL *Anthriscus cerefolium*

Chervil (60 days) Greek nobles referred to it as *khairephyllon*, or "leaf of joy," and carried sprigs to bless their friends. Superior slow-bolting strain of this annual grows vigorously. Delicate lacy leaves with distinct flavor good in soups, with fish or asparagus. Essential ingredient in mesclun. Direct seed before a rain in early spring or summer in rich well-drained soil with light but constant moisture. Leaves are ready to harvest 6-8 weeks after sowing. In warmer locations performs best as a fall crop.



3044CH Chervil ④ **A**=1/16oz, 60¢ (~770 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.60, **D**=1 oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $20.00. (12,500 seeds/oz)

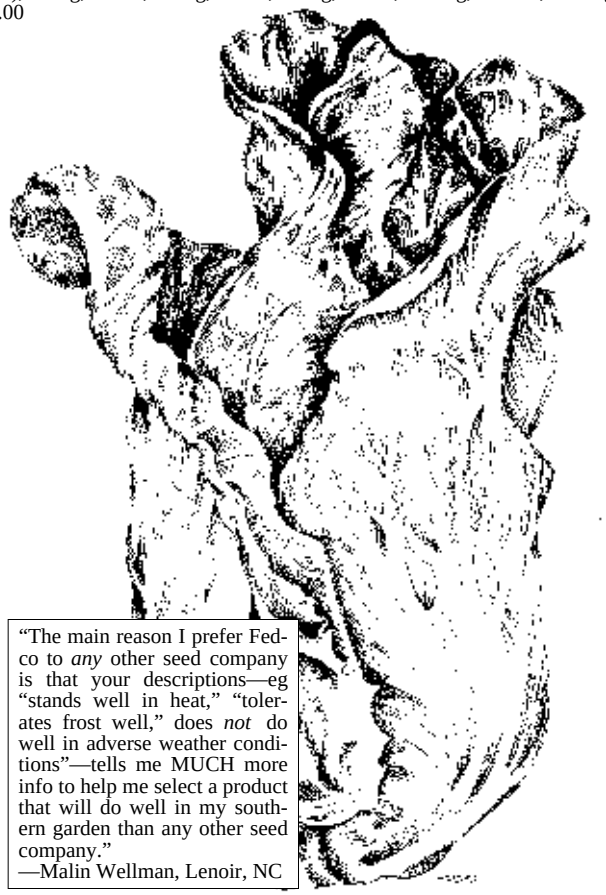
3045CO Chervil OG BSO-certified. ① **A**=1/16oz, 80¢ (~770 seeds), **B**=1/8oz, $1.50, **C**=1/2oz, $3.50, **D**=1 oz, $6.00, **E**=4oz, $11.00, **K**=1lb, $40.00. (12,500 seeds/oz)

CHICORY

3046DC Della Catalogna or **Radichetta** (49 days) *Lactuca sativa* Is it a dandelion, a chicory or a lettuce? We had quite a correspondence before finding out from the Italian supplier that it *is* a lettuce. Its bluish color attracted attention in our trials. Heavy-textured serrated leaves somewhat resemble dandelions, and taste agreeably bitter, more like escarole than lettuce. Lettuce or not, it should be used like chicory or Italian dandelion. Italians customarily chop the leaves, steam them and sauté them in olive oil. ② **A**=0.5g, $1.20 (~305 seeds), **B**=1g, $2.00, **C**=2g, $3.00, **D**=8g, $4.00, **E**=16g, $6.00, **K**=32g, $10.00

3047DO Dandy Red Dandelion OG (30-35 days baby, 55 days full size) *Chicorium intybus* A selection of Red Rib. Known as Catalogna in Italy, not a true dandelion but similar. The baby greens add a pleasant chicory spiciness to salad mixes. Italians use as a cooked vegetable at full size, being more used to the bitterness that increases as the plant grows. Deep red veins make a stunning contrast with the shiny green leaves, so striking that it could be used in a flower border. Tall narrow leaves with somewhat serrated edges but not pronounced dandelion tooth. From John Navazio of Seed Movement who has selected for fewer leaf hairs, less toothiness and a higher percentage of darker reds with fewer pinks and whites. CCOF-certified. ② **A**=0.5g, $1.00 (~340 seeds), **B**=1g, $1.80, **C**=2g, $3.00, **D**=8g, $5.00, **E**=16g, $8.00, **K**=32g, $12.00

3048PZ Pan di Zucchero (80 days) *C. i.* Open-pollinated heirloom. The name means "sugar loaf" in Italian. If you associate chicory with bitterness Pan di Zucchero will surprise you. It stood out from the four dozen others in chicory expert Lucie Arbuthnot's fields. In her kitchen, it was delicious. Its 1' tall large tight light-green leaves are shaped like a romaine lettuce crossed with a napa cabbage. High yielding, best as a fall crop. Will store well for three months and survive for four if you wrap it tightly in slightly damp newspaper and keep it in a cold (just above freezing) spot. Lucie compares it to witloof chicory, but without all the extra work. ② **A**=0.5g, $1.20 (~235 seeds), **B**=1g, $2.00, **C**=2g, $4.00, **D**=8g, $7.00, **E**=16g, $12.00, **K**=32g, $20.00



"The main reason I prefer Fedco to *any* other seed company is that your descriptions—eg "stands well in heat," "tolerates frost well," does *not* do well in adverse weather conditions"—tells me MUCH more info to help me select a product that will do well in my southern garden than any other seed company."
—Malin Wellman, Lenoir, NC

CLAYTONIA *Montia perfoliata*

Direct seed in spring, 24 per ft. Thin to 3" apart. Responds to cut-and-come-again culture and tolerates moderate frosts. For best quality, make at least one succession planting.

3049CL Claytonia (40 days) Also known as Winter Purslane and Miner's Lettuce, it was the '49ers green of choice. Claytonia's small heart-shaped leaves have a mild but succulent taste which we find attractive. We add it regularly to our mesclun. ③ **A**=0.5g, $1.20 (~80 seeds), **B**=1g, $2.20, **C**=2g, $4.00, **D**=8g, $8.00, **E**=16g, $13.00, **K**=32g, $22.00 (45,000 seeds/oz)

COLLARDS *Brassica oleracea* (acephala group)

3051CH Champion (60 days) Rich dark Vates strain selected to stand longer. Resembles kale, but not savoyed. Thin to 12" apart for good size. Best as a fall crop. For greens into November; popular in the South for greens throughout the winter. ②③ **A**=2g, 60¢ (~665 seeds), **B**=4g, $1.00, **C**=14g, $1.80, **D**=28g, $2.50, **E**=112g, $4.00, **K**=448g, $12.00

CRESS *Lepidium sativum*

See also watercress, #4695.

3053CC Curly Cress (20 days) Bright green tightly ruffled leaves can be cut as soon as they are a couple of inches tall. Peppery flavor enlivens salads. Offered by C.P. Hirschy for a nickel a packet in 1890. ② **A**=1/16oz, 60¢ (~570 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $2.00, **E**=4oz, $4.00, **K**=1lb, $9.00

Wrinkled Crinkled Crumpled Cress (30 days)

Salad green that will impress.
Mix some lettuce, add some dress.
Stir it up, sit down and fress.
Banish cares and summer stress.

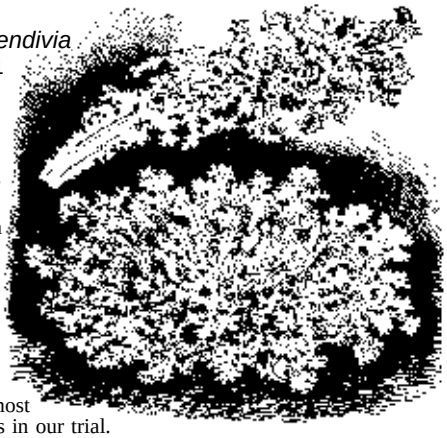
With a designer's eye, a discerning palate, and a breeder's deft touch, Frank Morton crossed Persian and curled cresses to create a gene pool, from which he selected Wrinkled Crinkled. Broad leaves are extremely ruffled and wrinkled along the margins and savoyed in the middle. A fluffy, spicy addition to your salad mix. In addition to the tang, will add an irresistible sweetness that lingers. Can be bunched for market.

3055WC Wrinkled Crinkled Crumpled Cress ECO ① **A**=1/16oz, 60¢ (~850 seeds), **B**=1/8oz, $1.00. *Not available in larger sizes.*

3056WO Wrinkled Crinkled Crumpled Cress OG OT-certified.① **A**=1/16oz, 80¢, **B**=1/8oz, $1.50, **C**=1/2oz, $3.00, **D**=1oz, $6.00, **E**=4oz, $15.00, **K**=1lb, $50.00

ENDIVE *Cichorium endivia*

1/16 oz packet sows 40 ft, 1 oz 650 ft.



3062TF Très Fine Maraîchère (42 days) Large frizzy endive with very fine ribs suitable for late spring and early summer harvests. Known to chefs as frisée. ⑤ **A**=1/16oz, 70¢ (~1225 seeds), **B**=1/8oz, $1.20, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $18.00, **K**=1lb, $70.00

3084LC Lorca (52 days) The curliest and most spread-out of the endives in our trial. Unlike TFM, the leaves are curly, not frizzy. Makes a beautiful plant with large deep thick heads which hold a long time. ⑤ **A**=1/16oz, $1.20, **B**=1/8oz, $2.40, **C**=1/2oz, $9.00. *Not available in larger sizes.*

3092BL Broad-Leaved Batavian (85 days) Also known as Escarole. Smooth broad dark-green outer leaves with creamy yellow closely bunched center leaves which Fearing Burr described as thick and fleshy in his 1863 *Field and Garden Vegetables*. Praised by William Woys Weaver as a good salad green, not bitter. ③ **A**=1/16oz, 60¢ (~1140 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $10.00

MÂCHE *Valerianella locusta*

Also known as Corn Salad, Lamb's Lettuce, Field Salad and Fetticus, mâche has a unique nutty flavor that really enhances salads. Harvest by pinching off the entire rosette at ground level. The once-humble peasant green is highly touted by Eliot Coleman, and has now gained favor in higher social strata. It is extremely cold-tolerant.

3102VC Verte de Cambrai (45 days) A small-seeded small-leaved strain which performs especially well in cool or cold conditions and is the best kind for overwintering. May be the same variety as grown by Thomas Jefferson in Monticello in 1810 under the name Candia. ⑤ **A**=1/16oz, 60¢, **B**=1/8oz, $1.00, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $8.00, **K**=1lb, $30.00

3114LL Large-Leaf Round (60 days) Vigorous large-leaf type which is suitable for sowing in spring for an early summer harvest. Weaver traces this strain back to the 1840s, but for centuries prior to that corn salad was gathered in the wild. ⑤ **A**=1/16oz, 60¢, **B**=1/8oz, $1.00, **C**=1/2oz, $1.80, **D**=1oz, $3.00, **E**=4oz, $8.00, **K**=1lb, $30.00. (10,000 seeds/oz)

MINUTINA *Plantago coronopus*

3122MN Minutina (50 days) Also called Buckshorn Plantain. Morse Pitts of Windfall Farm brought this spiky green to our attention. As it comes up it looks like little blades of grass. As it matures, it resembles mizuna leaves, only much narrower, less leafy and more succulent. Crunchy with a mild nutty flavor. Slow grower, will regenerate from cutting, but we recommend succession planting. Extremely cold hardy. ② **A**=1/16oz, 70¢, **B**=1/8oz, $1.20, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $15.00, **K**=1lb, $55.00

MUSTARD GREENS *Brassica juncea*

See also #3236.

3138GW Green Wave (45 days) This 1957 AAS winner is the best adapted mustard for our climate. It features a hot mustardy flavor which makes it a prime ingredient in piquant mesclun. Not as hot when parboiled. Will come back when cut; slow to bolt. ③ **A**=1/16oz, 60¢ (~1060 seeds), **B**=1/8oz, $1.10, **C**=1/2oz, $1.60, **D**=1oz, $3.00, **E**=4oz, $4.50, **K**=1lb, $12.00

ORACH *Atriplex hortensis*

Key salad ingredient also known as Mountain Spinach, thrives in cool weather and should be sown as soon as the ground can be worked. Can be pinched back to encourage production and retard bolting. Produces an abundance of seed which can be saved, and will occasionally self-sow in your garden. Once very popular in America (Fearing Burr listed 16 varieties in 1865!), then forgotten for many years, orach has come back into favor. Seed encased in papery hulls, not suitable for precision seeders.

3145MO Magenta Orach OG (38 days) A new color for orach and a stunning addition to mesclun. Magenta grabs attention with its bright day-glo show. Slower-growing and less vigorous than other hues, but perfect for baby salad mix. OT-certified. ① **NEW! A**=1/16oz, $1.20, **B**=1/8oz, $2.20, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

Red Orach (38 days) Beautiful red-purple spinach-shaped leaves have a mild flavor.

3147RC Red Orach ECO ① **A**=1/16oz, $1.00 (~250 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $5.00, **D**=1oz, $8.00

3148RO Red Orach OG OT-certified. ① **A**=1/16oz, $1.10 (~250 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

Aurora Orach Mix (38 days) This mix of Golden, Dark Purple, Purple and Carmine Day-glo will give orachs a whole new aura in your garden and salad mixes. As Frank Morton, the breeder says, "Exotic forms and high contrast, high intensity color sells seed, and good taste and easy culture sells that seed year after year." As I toured his fields in Oregon, I could imagine the possible fluorescences from combining the different shapes and colors of his many types of orach. Now, you can see for yourself.

3149AU Aurora Orach Mix ECO ① **A**=1/16oz, $1.00, **B**=1/8oz, $2.00, **C**=1/2oz, $5.00

3150AO Aurora Orach Mix OG OT-certified. ① **A**=1/16oz, $1.10 (~200 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00, **K**=1lb, $105.00

PARSLEY *Petroselinum crispum*

1/16 oz packet sows 25 ft, 1 oz 400 ft. 14,000 seed/oz average. Very hardy. Very slow to germinate (up to 30 days). Soaking seed 8-12 hours will hasten germination. Parsley seed is short-lived; test old seed before sowing.

3158GI Gigante d'Italia (70 days) We were really wowed by its early seedling vigor and rich sweet flavor. Although the regular Plain Leaf eventually came close in size (1') it never matched Gigante in flavor. Heirloom hails from northern Italy. ③④ **A**=1/16oz, 60¢, **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $2.50, **E**=4oz, $4.00, **K**=1lb, $12.00

3166FG Forest Green (75 days) Combination double- and triple-curled with long upright stiff stems. Holds color well all season, tolerates heat and repeated cuttings. ② **A**=1/16oz, 60¢, **B**=1/8oz, $1.10, **C**=1/2oz, $2.00, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $20.00

Plain Leaf (80 days) Flat glossy dark-green leaves with strong flavor.

3175PL Plain Leaf ③ **A**=1/16oz, 60¢, **B**=1/8oz, $1.00, **C**=1/2oz, $1.50, **D**=1oz, $2.00

3176PO Plain Leaf OG CCOF-certified. ③ **A**=1/16oz, 70¢, **B**=1/8oz, $1.20, **C**=1/2oz, $2.00, **D**=1oz, $3.00, **E**=4oz, $6.00, **K**=1lb, $15.00

PURSLANE *Portulaca oleracea* var. *sativa*

Direct seed in spring, after danger of frost is past. Thin to 5" apart. Can be cut; will regenerate. Doesn't tolerate frost. We recommend a succession planting to maximize tenderness. Purslane leaves have more vitamin C than spinach leaves and are rich in omega-3 fatty acids and antioxidants.

Golden (50 days) Related to the common garden weed, but more erect and not crawly. Golden has a succulent texture with a mildly acerbic flavor which makes it an ideal addition to mesclun. Golden-green leaves patterned like a cross.

3181GG Golden ① **A**=0.5g, $1.20, **B**=1g, $2.00

3182GO Golden OG OT-certified. ① **A**=0.5g, $1.30 (~1200 seeds), **B**=1g, $2.20, **C**=2g, $4.00, **D**=8g, $5.50, **E**=16g, $9.00, **K**=32g, $15.00. (70,000 seeds/oz)

Open-pollinated RADICCHIO *Cichorium intybus*

These radicchios are easy to raise from transplants although they have not yet been refined to absolute uniformity. Occasional plants still bolt unpredictably. If you try direct-seeding, watch out for voracious flea beetles. Culture like lettuce; do not allow to dry out. They are mature when heads form in the center. Do not eat the bitter outer leaves. The edible centers are an acquired taste, retaining some bitterness, wonderful in salad or braised. Fall crops make the largest heads. Very tolerant of fall frosts. Ours gallantly stood consecutive nights in the low twenties without apparent damage. Even if you don't like to eat radicchio, consider growing its red heads as ornamentals. Left in the ground over winter, it bolts in spring and blooms with cornflower-blue chicory flowers every morning throughout the summer.

3186PR Palla di Fuoco Rossa (65 days) Round-headed Chioggia-type from Italy. Palla di Fuoco impressed us with its deep burgundy heads which matured earlier with better uniformity than Augusto. Its name means balls of red fire. ② **A**=0.5g, $1.20 (~350 seeds), **B**=1g, $2.00, **C**=2g, $4.00, **D**=8g, $7.00, **E**=16g, $12.00, **K**=32g, $20.00. (20,000 seeds/oz).

3189RT Radicchio di Treviso (80 days) A radicchio from Italy which is shaped almost like a small romaine lettuce. Turns from green to variegated dark burgundy with lovely white veining as the nights grow cold. As its narrow leaves bunch like a romaine, you can bind them with a ribbon to make a firmer "head." Best for fall crops. ② **A**=0.5g, $1.20 (~350 seeds), **B**=1g, $2.00, **C**=2g, $4.00, **D**=8g, $8.00, **E**=16g, $13.00, **K**=32g, $22.00. (20,000 seeds/oz)

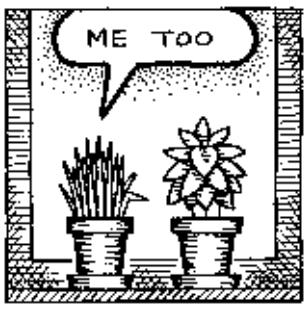
Hybrid RADICCHIO

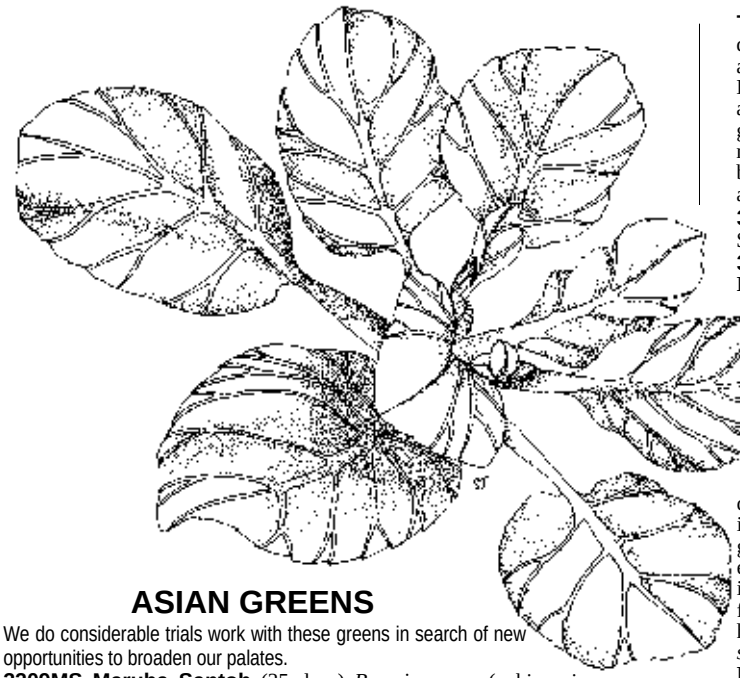
3190FR Fiero (66 days) A truly beautiful elongated upright radicchio which we hope more of you will try. Deeply ribbed leaves with a branching pattern off the central vein reminiscent of a tree. The whitish vein blushes green along the margins and branches, creating a spectacular color contrast with the purplish background. Early and delicious, a reliable header. Pelleted seed. We will drop this variety next year unless we have more sales. ④ **A**=0.5g, $1.50 (~12 seeds), **B**=1g, $2.80, **C**=2g, $5.00, **D**=8g, $12.00, **E**=16g, $22.00, **K**=32g, $40.00

3191ND Indigo (69 days) We've never seen a radicchio produce such consistently large tight heads of extraordinary rich interior color. Nikos rated it one of the sweetest red radicchios she's ever tasted. Tip-burn resistant. Pelleted seed. ④ **A**=0.5g, $1.50 (~12 seeds), **B**=1g, $2.50, **C**=2g, $4.50, **D**=8g, $8.00, **E**=16g, $14.00, **K**=32g, $26.00

SORREL *Rumex acetosa*

3192BL Broad-Leaved Sorrel (60 days) Open-pollinated. Perennial often known as Sour Grass likes cool weather, acid soil, and plenty of water. Lemony flavored sword-shaped leaves add tang to soups and salads. To maintain steady supply of tender leaves, keep cutting and never let seed stalks mature. Makes a tasty spring tonic in salads. ②③ **A**=1/16oz, 60¢ (~1925 seeds), **B**=1/8oz, $1.00, **C**=1/2oz, $1.60, **D**=1oz, $3.00, **E**=4oz, $8.00, **K**=1lb, $30.00





ASIAN GREENS

We do considerable trials work with these greens in search of new opportunities to broaden our palates.

3209MS Maruba Santoh (35 days) *Brassica rapa* (pekinensis group) Open-pollinated. With Maruba you get two vegetables in one. The loose round vibrant chartreuse leaves provide a mild piquant mustardy flavor while the flat white stems impart a juicy crisp pac choi taste. Market grower Scott Howell finds the flavor more subtle and complex than that of other greens and cuts Maruba small for his mesclun mix. Fairly bolt tolerant, so plant after the early spring flea beetle invasion subsides. ⑤ **A**=1/16oz, $1.00 (~640 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $12.00, **K**=1lb, $40.00

3218SN Senposai (40 days) F-1 hybrid. According to Joy Larkcom in *Oriental Vegetables* its name means "one thousand treasure vegetable." This exciting new green, developed in Japan, is a cross between Japanese Mustard Spinach (Komatsuna *B. rapa*) and regular cabbage. Its round medium-green leaves are reminiscent of collards, with a delicious lighter taste, and are wonderful in o*konamiyaki* or for braising. Leaves get huge, but remain more tender than collards. Best of all, Senposai stands the entire summer and goes well into fall before bolting! Ann Elder reports that it remained sweet even during drought. Suitable for late fall/early winter production in warmer climes, or can be used for spring greenhouse salad production because it grows so rapidly. Open plant habit needs 12-18" per plant. ⑤ **A**=1/16oz, $1.00 (~380 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $5.50, **E**=4oz, $18.00, **K**=1lb, $60.00

MUSTARD

1/16 oz packet sows 40 ft, approx 15,600 seeds per oz.

3228MZ Mizuna (40 days) *B. rapa* (japonica group) Open-pollinated. Vigorous heirloom Japanese mustard produces slender white stalks with deeply cut and fringed dark green leaves. Not pungent. One planting could suffice for full season production if watered in dry spells and kept cut. Three or more successions required for connoisseurs because the young leaves are more tender. We found this strain to be considerably more bolt-resistant than Kyona. Biennial. Essential in mild mesclun. ③ **A**=1/16oz, $1.00, **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $4.00, **E**=4oz, $10.00, **K**=1lb, $30.00

3230MO Mizspoona Salad Selects Gene Pool OG (40 days) Nikos had never seen me eat that much of any green before! This mix of saladings must have hit my palate just right…didn't bite my tongue off like some of the serious mustards, nor bore me with blandness as Mizuna sometimes does. Sweet, juicy with a bit of zing, medium dark-green leaves of variable shape, some rounded, some pointed, slightly ribbed white veins. Tender and delicious in salads or braised. From Frank Morton in Oregon, OT-certified. ① **A**=1/16oz, $1.10, **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $32.00. *Not available in larger sizes.*

3236RO Red Giant OG (45 days) *B. juncea* (integlifolia group) Open-pollinated. Large purple-tinted savoyed leaves make the 18" plants very decorative. Color intensifies in cooler temperatures. Gene compares their taste to horseradish. I prefer to call it peppery. It is less hot during cool weather. This heirloom Japanese mustard is a standard ingredient in spicy mesclun. CCOF-certified. ③ **A**=1/16oz, $1.10 (~880 seeds), **B**=1/8oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $5.00, **E**=4oz, $12.00, **K**=1lb, $35.00

Tatsoi (45 days) *B. r* (narinosa group) Open-pollinated. What grows quickly, can be seeded as late as August and withstands frost? Yes, Tatsoi, also known as Tah Tsai. Anne Elder in Ann Arbor, MI, picked it all fall into December even after a snow melt-off. In winter it was still not burnt by cold and remained sweet. "A dream come true for snow-dwelling beings craving greens." Spoon-shaped thick dark-green leaves make beautiful compact rosettes with mild brassica flavor. Good stir-fried and in soups. Will come back when cut. Since our purchaser Nikos Kavanya first brought it to our attention, it has become an essential ingredient in our salads and mesclun.

3244TS Tatsoi ⑤ **A**=1/16oz, $1.00, **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $4.00, **E**=4oz, $10.00, **K**=1lb, $30.00

3245TO Tatsoi OG CCOF-certified. ③ **A**=1/16oz, $1.20 (~850 seeds), **B**=1/8oz, $2.20, **C**=1/2oz, $4.00, **D**=1oz, $6.00, **E**=4oz, $15.00

3252TZ Toraziroh (45 days) *B. alboglabra* Open-pollinated. A robust performer with just the right kind of mustardy zest. It rapidly develops prolific yields of large very dark green leaves distinctively but not overwhelmingly pungent. In two years of trials won many favorable reviews from brassica lovers. Stems, also edible, have a flavor somewhat like pac choi. Relatively slow to bolt. ⑤ **A**=1/16oz, $1.00 (~850 seeds), **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $18.00, **K**=1lb, $60.00

3255YB Yukosai Bitamin-Na *B. r.* (narinosa group) (21 days baby; 45 days mature) F-1 hybrid. Sometimes anglicized to 'Vitamin Green,' Yukosai is both quick-growing and versatile, making it an easy addition to your garden. Tolerating both heat and cold, it can extend your season at either end, while simultaneously broadening your culinary range. Use it either raw in salad mixes or cooked in stir fries. The deep green tender leaves, though flavorful, lack the mustard "bite" found in so many Asian greens and can be harvested as a "cut-and-come-again" crop or at maturity. *Seed in short supply; order early.* ① **A**=1/16oz, $1.00, **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $5.00, **E**=4oz, $18.00. *Not available in larger sizes.*

PAC CHOI *B. r.* (chinensis group)

1/16 oz packet sows 30 ft, approx 12,500 seeds per oz. Pac choi and carrots are among the best sources of beta carotene.

3260SH Shuko (45 days) F-1 hybrid. Baby pac choi with green stems likes cool temperatures but resists bolting for a long time, even in heat. Vase-shaped plants have broad green petioles with beautiful dark leaves. Virtually identical to Mei Qing Choi which we can no longer get. We sold over 17 lb. of seed last year. ⑤ **A**=1/16oz, $1.10, **B**=1/8oz, $2.00, **C**=1/2oz, $3.50, **D**=1oz, $6.00, **E**=4oz, $20.00, **K**=1lb, $70.00

3270PO Prize Choy Pac Choi OG (50 days) Open-pollinated. Classy pac choi with celery-like white stems and vase-shaped 15-18" tall heads. OT-certified. ① **A**=1/16oz, $1.10 (~760 seeds), **B**=1/8oz, $2.10, **C**=1/2oz, $5.50, **D**=1oz, $9.00, **E**=4oz, $30.00, **K**=1lb, $105.00

CHINESE CABBAGE *B. r.* (pekinensis group)

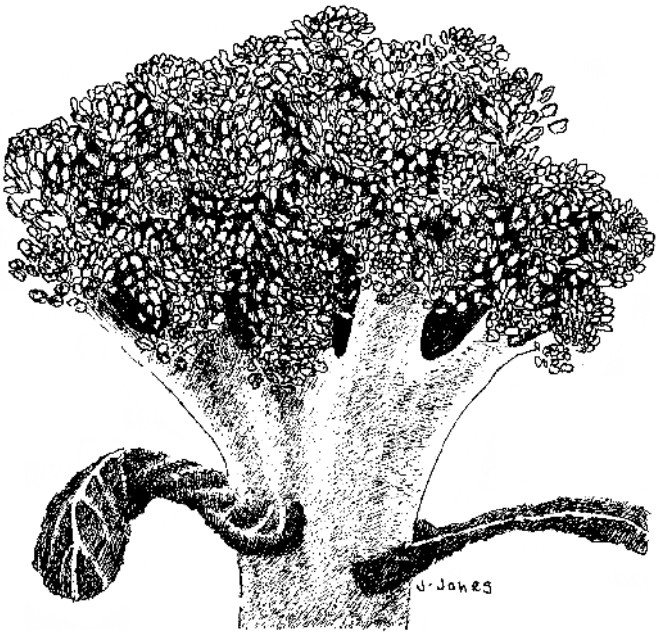
1/16 oz packet sows 25 ft, approx 9,500 seeds per oz.

3273FJ Fun Jen (45 days) Open-pollinated. Fast growing undulating leaves with a slightly wrinkly surface. Customers have been asking for a lettucy type Chinese cabbage and in Fun Jen, we've found a good one. These semi-loose conical very light yellow-green ruffled 6x10" heads have a crunchy texture and very mild delicate flavor somewhat like lettuce. The thick white ribs are tasty with a pleasing light tangy sweetness. Shows excellent frost resistance but will bolt in heat after standing 2-4 weeks. Stores very well. Seed from Known-You in Taiwan. ③ **NEW! A**=1/16oz, $1.00, **B**=1/8oz, $1.80, **C**=1/2oz, $3.00

3276BL Blues (52 days) F-1 hybrid. Good bolt resistance, disease resistance and taste in this Napa type. Flavor is relatively pungent. Suitable for planting early spring through July. You won't have to pay many dues to enjoy these Blues! Moderate tolerance to virus, DM, ALTS, BSR. ⑤ **A**=1/16oz, $2.00, **B**=1/8oz, $3.20, **C**=1/2oz, $12.00, **D**=1oz, $22.00, **E**=4oz, $80.00. *Not available in size K.*

CHRYSANTHEMUM *C. coronarium*

3292GS Garland Serrated (40 days) Open-pollinated. Grown for its aromatic greens with an unusual taste appreciated by devotees. This strain was superior to other Shungiku varieties in our trial. Its 5" flowers (buttercup yellow, edged in white with serrated tips) were larger and better for the edible flower market and its small grey-green serrated leaves had distinctly more chrysanthemum taste. The Japanese use it in hearty one-pot winter stews known as *oden*. Also good in salads, soups and stir-fries. Plant thickly in early spring (or summer for a fall crop) and harvest green leaves when stems are 4-8 inches tall, before buds appear. ⑤ **A**=1/16oz, $1.00, **B**=1/8oz, $1.80, **C**=1/2oz, $3.00, **D**=1oz, $4.00, **E**=4oz, $12.00, **K**=1lb, $36.00



Open-pollinated BRASSICA

2 gram packet sows 45 ft. About 8,000 seeds per oz. Hardy. Start broccoli and Cauliflower indoors March-May for setting out May-July, or direct-seed in May or June for fall crop. They are easier as fall crops because some varieties perform poorly in hot summers. For better stands in dry conditions sow in trenches. Require warm temperatures to germinate. Need 60s during seedling stage for optimal growth; higher temperatures make seedlings leggy. Heavy feeders; for best growth, need regular moisture and 2-3' spacing. Have done well for us succeeding onions and garlic in beds. Combat cabbage loopers with Bt (see #8902 in the supplies section). Use floating row covers to keep out flea beetles. Cauliflower and broccoli are damaged by hard frosts, especially in spring. Days to maturity are from direct seeding. Subtract 20 days from date of transplanting.

BROCCOLI *B. oleracea* (botrytis group)

How tastes change! In 1880, Hiram Sibley & Co. offered 37 varieties of cabbage, just 3 of broccoli. Broccoli contains significant levels of sulforaphane, a substance that helps detoxify carcinogens from the body. Research indicating that broccoli seed sprouts are more effective in combating cancer than the vegetable itself caused a run on open-pollinated broccoli seeds. The broccoli seed which we offer is not food grade and we cannot guarantee that it is fit for human consumption. We have no control over the conditions in which it is stored before it reaches us. Please consult your natural food wholesaler or retailer for sprouting seed.

3310TO Thompson OG (92 days) Tim Peters, who has done much work with open-pollinated broccoli, rates Thompson as better than his earlier development Umpqua. When grown under fertile conditions, Thompson shows excellent resistance to stress and more consistently well-formed heads than Umpqua. Uniform dark green heads average 5-6" in diameter. An excellent open-pollinated broccoli for fall crops. CCOF-certified. ① **A**=2g, $1.00 (~400 seeds), **B**=4g, $1.80, **C**=14g, $3.50, **D**=28g, $6.50, **E**=112g, $25.00, **K**=448g, $75.00

3313WM Waltham 29 (92 days) Developed in 1951 and long considered the standard open-pollinated fall broccoli. We've found a reliable strain which consistently produces 6" heads with medium beads. These are attractive stocky 20" plants. Many hybrids make bigger central heads, but Waltham delivers a goodly number of side shoots. *Caution: not suitable for summer crops, will not head properly in heat.* ② **BACK! A**=2g, 60¢, **B**=4g, $1.00, **C**=14g, $2.20, **D**=28g, $3.20, **E**=112g, $6.00, **K**=448g, $15.00

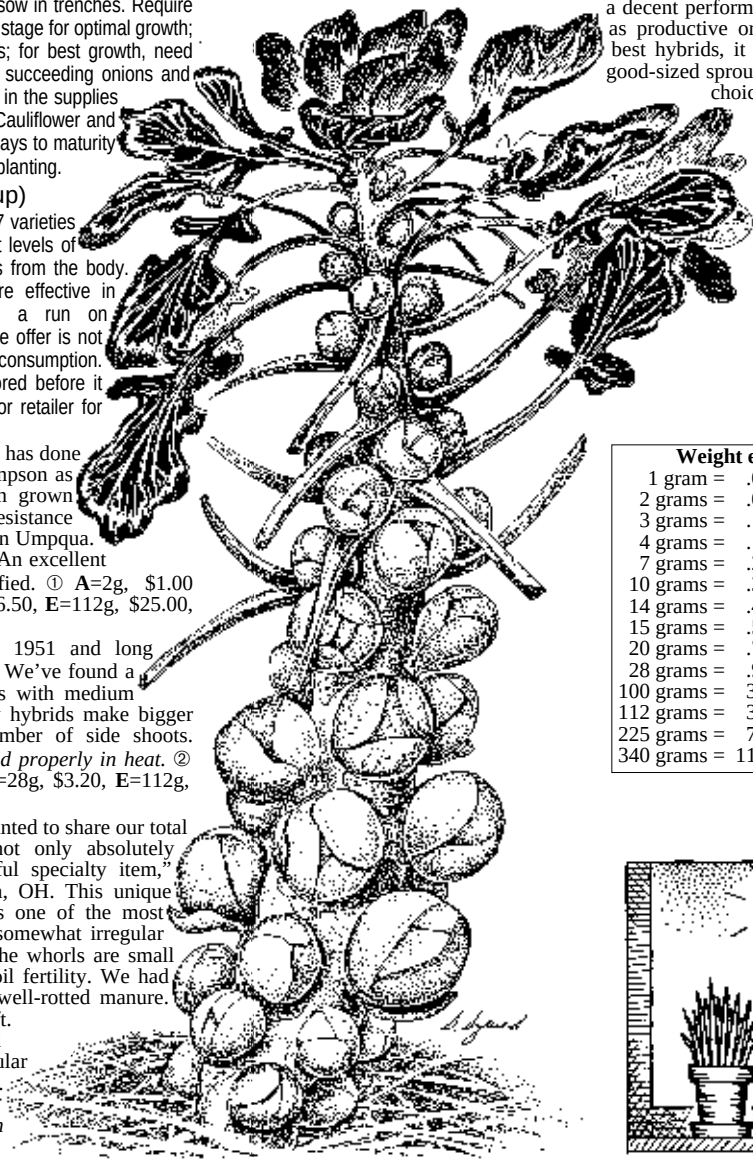
3316NR Natalino Romanesco (120 days) "We wanted to share our total delight with the Natalino Romanesco broccoli…not only absolutely delicious, but elegantly beautiful. What a wonderful specialty item," wrote Sheryl Gray and Ethan Fleming from Jenera, OH. This unique heirloom from Northern Italy, when well grown, is one of the most beautiful plants in the garden with its cone-shaped somewhat irregular whorl of chartreuse florets. When not well grown, the whorls are small and ugly. The trick is to maintain extremely high soil fertility. We had fantastic results planting in raised beds with 8" of well-rotted manure. Well-grown plants are huge, and need about 10 sq. ft. each. Should be started indoors in March or April and transplanted out in late May or June. Maturity is irregular and can occur any time between August and October. ② **A**=0.5g, 80¢ (~125 seeds), **B**=1g, $1.20, **C**=4g, $4.00, **D**=14g, $8.00, **E**=28g, $12.00. *Not available in size K.*

BRUSSELS SPROUTS *B. o.* (gemmifera group)

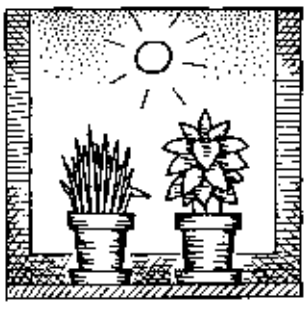
"They are a delicacy not surpassed by the finest cauliflower," asserts the 1915 Salzer catalog. I agree, but like cauliflower, they are fussy. They must be started indoors no later than early April and transplanted into very fertile soil. A real key to success is to top the plants around Sept. 1. When I experimented by topping some and leaving others, the difference was dramatic. Within two weeks the topped plants were putting all their energy into making sprouts while the untopped plants continued to shoot up more foliage and only miniscule sprouts. The jury is still out on whether to remove the lower leaves, but evidence suggests best practice is to retain the leaves while topping the plant. Hardiest member of the brassica family is improved by frost and can be harvested past the first snowfall.

3317FS Falstaff (98 days)
Evans: *Pauca verba*, Sir John; good worts.
Falstaff: Good worts! Good cabbage. Slender, I broke your head: what matter have you against me?
Good cabbage, indeed! We have nothing against this marvelous red brussels sprout, though we can find no closer reference in Falstaff's besotted speeches. No wonder the search in *Merry Wives of Windsor* proved fruitless; the brussels sprout, a mutation of Flanders Kale, did not develop until the late 18th century. If brussels sprouts are the princes among cole crops, Falstaff is the crown prince. Until now, we'd enjoyed the beauty of red varieties such as Rubine, but had never been able to harvest a single sprout. The first red brussels sprout to ripen in our climate, Falstaff is not only ornamental but also extremely savory. Cooking brings out its tender nutty sweetness while allowing it to retain bluish purple pigments. It cooks quickly, though, so don't overdo it. Good production in our 2003 plot, sprouts with wide size variation, some quite large. The color intensifies after a hard frost. **NEW! A**=2g, 80¢, **B**=4g, $1.50, **C**=14g, $5.00, **D**=28g, $10.00, **E**=112g, $16.00

3319GR Groninger (104 days) Long Island Improved is considered the standard open-pollinated brussels sprout, but we've never been able to get it to do anything. After a long search, we found Groninger. Groninger has been a decent performer for us. While not as productive or as uniform as the best hybrids, it gives fair yields of good-sized sprouts, making it a good choice for home gardens. We will continue looking, but so far, Groninger is the best green we've found in the class. ③ **A**=2g, 70¢, **B**=4g, $1.20, **C**=14g, $2.50, **D**=28g, $4.00, **E**=112g, $12.00, **K**=448g, $45.00



Weight equivalents	
1 gram =	.035 oz
2 grams =	.070 oz
3 grams =	.106 oz
4 grams =	.141 oz
7 grams =	.247 oz
10 grams =	.355 oz
14 grams =	.494 oz
15 grams =	.528 oz
20 grams =	.710 oz
28 grams =	.987 oz
100 grams =	3.53 oz or .220 lb
112 grams =	3.95 oz or .247 lb
225 grams =	7.93 oz or .496 lb
340 grams =	11.99 oz or .750 lb



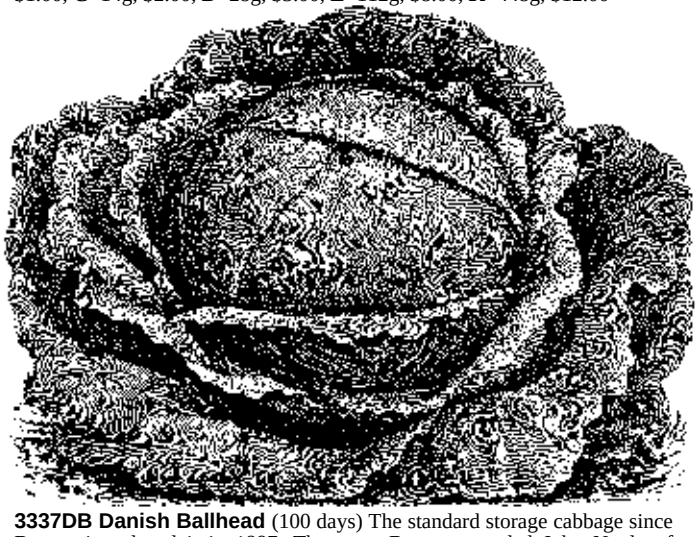
CABBAGE *B. o.* (capitata group)

From Stark Bros. 1924 catalog: "Every wide awake gardener knows that it is the early cabbage that brings in the dollars." The Greeks and Romans believed that eating cabbage at banquets would keep you from getting drunk. Recent efforts to eat more local produce are turning people's attention back to lactic fermentation, the age-old method for making pickled foods like sauerkraut and kimchi. Easy to do at home, lactic fermentation is the work of a succession of microbial species. The first ones produce lactic acid making the mix acidic, killing undesirable organisms and fostering microbes that complete the reaction. Sauerkraut is immune-enhancing and easier to digest with more available nutrients than raw cabbage. See Keeping Food Fresh (#9743) and Wild Fermentation (#9874) in the book section for explanations and recipes.

3324EJ Early Jersey Wakefield (63 days) This wonderful early cabbage originated in England in the early 1800s, was first grown in America in 1840, perfected by a German truck gardener in northern New Jersey and released by Peter Henderson in 1868. Henderson in 1902 asserted that "it was more largely grown than all other first early cabbages combined." and called it an "old reliable always to be depended upon for its uniformity in earliness and crop." Wakefield's compact medium 2-3 lb. heads are distinctively pointy. The pyramidal shape with sparse outside foliage permits close spacing. Tender flavorful waxy-looking Wakefield has stood the test of the ages and is still prized by home and market gardeners. ② **A**=2g, 60¢ (~620 seeds), **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $10.00

3335DV Des Vertus Savoy (95 days) A writer in the *American Agriculturist* (May 1882) urged that "Savoy cabbage is as much superior to the common hardheaded kinds as the least cultivated grape is superior to the ornamental fox-grape of the woods." This French variety is the best open-pollinated savoy cabbage we've found. Its large medium-green heads average 4-6 lb. Flavor is mild and juicy, semi-sweet. ② **A**=2g, 70¢ (~400 seeds), **B**=4g, $1.20, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $12.00, **K**=448g, $40.00

3336RR Mammoth Red Rock (100 days) This old favorite goes back to 1889. R. B. Dunning & Co. of Bangor, ME, sold a packet for a nickel and an ounce for 35¢ in 1936. A large late storage cabbage with firm flattened round heads in the 5-8 lb. range, Mammoth has a crisp sweet taste. Heads 8-10" across, red-purple to the core. ② **A**=2g, 60¢ (~620 seeds), **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $8.00, **K**=448g, $12.00



3337DB Danish Ballhead (100 days) The standard storage cabbage since Burpee introduced it in 1887. That year Burpee awarded John Nogle of Plymouth, OH, a $10 prize for the best head which weighed 15 lb. Yours will probably grow about half that big. The 5-7 lb. almost perfectly round hard blue-green heads attain marketable size by late summer yet hold till ready for storage in October. Stores till late spring with a pleasing texture and flavor. ②③ **A**=2g, 60¢ (~1000 seeds), **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $8.00, **K**=448g, $12.00

CAULIFLOWER *B. o.* (botrytis group)

When cauliflower heads first appear, bend leaves over curd to prevent discoloring. We welcome your suggestions for good open-pollinated cauliflower varieties.

3345ES Early Snowball (70 days) Good performer in our 2003 plot, this strain of Snowball boasts 6-7" pure white smooth medium-deep heads. Good for late summer, early fall harvest. Does not hold quality as long as hybrids. ② **NEW! A**=1g, 80¢, **B**=2g, $1.50, **C**=4g, $2.50. *Not available in larger sizes.*

3348DM Dominant (94 days) *Still not available in 2004.*

KALE

To avoid the worst of the flea beetle season direct seed Kale and collards in July for Sept. maturity. Kale is quite hardy and the flavor is enhanced by fall frosts. See also #6427.

Red Russian (60 days) *B. napus* (pabularia group) Called Buda Kale by Fearing Burr in 1863 and Ragged Jack by Vilmorin-Andrieux in 1885. Russian traders brought this Siberian heirloom to Canada in the 19th century. It has undergone a rousing revival in the last dozen years. Its oakleaf foliage colors after fall frosts. Red and purple leaves change to dark green when cooked. Use soon after picking, or chill leaves in cold water; otherwise wilts quickly. Vigorous edible landscape plant has proven a big hit with customers for its unsurpassed tenderness and delicate flavor.

3382RC Red Russian ③ **A**=2g, 60¢ (~800 seeds), **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $5.00, **K**=448g, $16.00

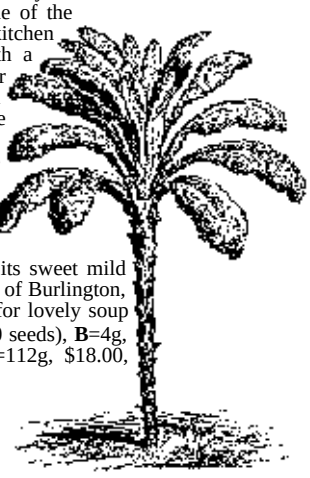
3383RO Red Russian OG CCOF-Certified. ③ **A**=2g, 80¢ (~800 seeds), **B**=4g, $1.50, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $14.00, **K**=448g, $50.00

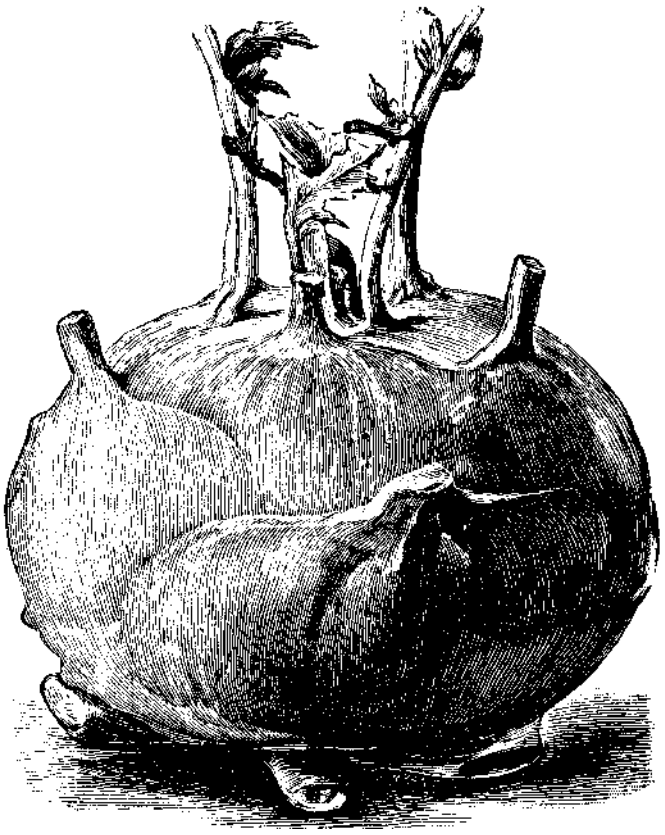
White Russian (60 days) *B. n.* (pabularia group) A flat-leaf Siberian type, silvery green with white veining. Similar to Red Russian, but a few inches taller, a third more productive, with larger, more serrated leaves. Also, much hardier than Red Russian, will hold into November without protection and thrive in an unheated greenhouse, even if temperatures go down to 0˚. Gene has harvested White Russian outdoors in Waterville out of the January snow. If season is extended, White Russian will produce new clusters of smaller tender secondary leaves from old axils. As with other Siberian kales, flavor gets sweeter with frost.

3384WR White Russian ECO ① **A**=2g, $1.20 (~490 seeds), **B**=4g, $2.00, **C**=14g, $6.00, **D**=28g, $12.00, **E**=112g, $40.00

3385WO White Russian OG OT-certified. ① **A**=2g, $1.30 (~490 seeds), **B**=4g, $2.40, **C**=14g, $7.00, **D**=28g, $13.00, **E**=112g, $45.00, **K**=448g, $160.00

3387CP Nero di Tuscana or **Cavolo Palmizio** (62 days) *B. o.* (acephala group) Also known as Dinosaur Kale. We think Lacinato, sometimes considered synonymous, is a slightly different strain. Described by Vilmorin-Andrieux in 1885. William Woys Weaver traced it back to the eighteenth century. Weaver calls it "one of the most beautiful kales to grace any kitchen garden" and suggests interplanting with a vivid green lettuce for a spectacular color combination. Nero seems elemental, a stripped-down version of kale shaped like a miniature palm tree about 18" high. Very dark-green wrinkled strap-like leaves appear almost black at a distance, looking minimalist compared with the more common lush curly-leaved kales. Delicious and nutritious as well as adaptable to a wide temperature range, its sweet mild flavor improves after frost. Annie Morse of Burlington, VT, suggests blanching and freezing it for lovely soup additions all winter. ② **A**=2g, 70¢ (~750 seeds), **B**=4g, $1.20, **C**=14g, $3.00, **D**=28g, $5.00, **E**=112g, $18.00, **K**=448g, $60.00





KOHLRABI *B. o.* (gongylodes group)

3390WV Early White Vienna (58 days) Early dwarf heirloom variety with short tops and medium-sized stems. Bulbs have crisp white tender flesh with a pungent taste. Don't like kohlrabi? Try harvesting it young when it tastes like a humble version of the globe artichoke. Its texture turns tough, woody, and inedible if you wait too long. From Central Europe before 1860. ③ **A**=2g, 60¢ (~590 seeds), **B**=4g, $1.00, **C**=14g, $2.00, **D**=28g, $3.00, **E**=112g, $4.00, **K**=448g, $10.00

3392GI Gigante (130 days) You might guess that these get enormous. And they do, regularly exceeding 10" in diameter and 10 lb. According to Nichols Garden Nursery, the world record is 62 lb, leaves included. Unlike other kohlrabi, this Czechoslovakian heirloom doesn't get woody even when it grows enormous. Gigante's crisp white mildly tangy flesh will add zest to your meals while you await the first edible greens of spring. Sow in spring for late fall harvest. A root cellar staple. ③ **A**=2g, 70¢ (~620 seeds), **B**=4g, $1.20, **C**=14g, $4.00, **D**=28g, $8.00, **E**=112g, $16.00, **K**=448g, $60.00

RAAB *B. rapa* (ruvo group)

3396QT Quarantina (40 days) Also known as Rapini here and *Broccolo Asparago* in Italy, *Quarantina* means "40 days." Raab is a non-heading version of broccoli with a more pungent flavor. Harvest young stems, leaves and small flower buds. Steam, stir-fry or add to salads. Many people try this as a spring crop with poor results. If the flea beatles don't get you, the summer heat will. Raab is much better as a fall crop. It will hold a lot longer and cool nights improve the flavor. Flowering tips of kale make a better spring crop. ② **A**=2g, 70¢ (~850 seeds), **B**=4g, $1.20, **C**=14g, $2.20, **D**=28g, $4.00, **E**=112g, $12.00, **K**=448g, $40.00

Hybrid BRASSICA

About 8,000 seeds per oz (28.4g).

BROCCOLI *B. o.* (botrytis group)

3410PK Packman (73 days) A good broccoli to start the season, Packman produces 6-7" flat-topped heads. Usually reliable but will button if stressed by extreme cold or excessive moisture. From Seminis. ⑤ **A**=0.5g, $1.20 (~125 seeds), **B**=1g, $2.20, **C**=4g, $7.00, **D**=14g, $17.00, **E**=28g, $32.00

3434PC Premium Crop (82 days) Old standby maincrop broccoli for commercial growers. Uniform, dependable with large 8" heads. Very few side shoots. Harvest early in rainy weather to avoid rot in centers. 1975 AAS winner from Takii in Japan. Tolerant to DM. ⑤ **A**=0.5g, $1.10 (~125 seeds), **B**=1g, $2.00, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $25.00

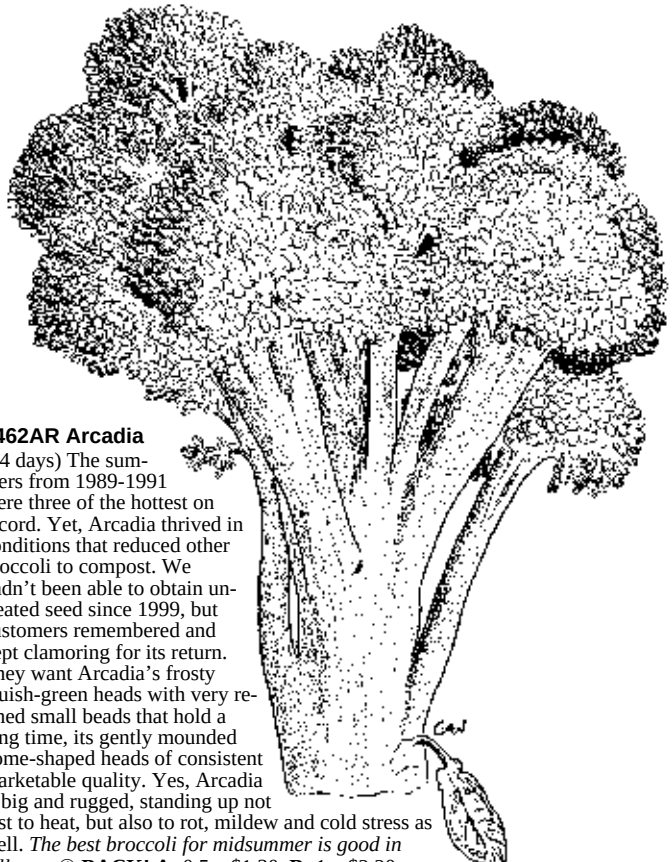
3440BN Benihana (84 days) *Not available in 2004.*

3442GK Green King (85 days) Green King's exceptional tenderness made it the best-tasting of 23 varieties in our trial. Green King also scored high for its consistent yield of large high-quality 8" heads. Market growers will appreciate its uniform ripening. Vigorous plants bear thick blue-green domed heads with rather large beads. Side shoots are big enough to be marketable but not plentiful. Green King stands heat well. Sets the standard for maincrop hybrid broccoli and by far our best seller in the class. ③ **A**=0.5g, $1.10 (~165 seeds), **B**=1g, $2.00, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $25.00

3449BR Barbados (90 days) Despite being subjected to intense heat in August 1999, Barbados came through in late September producing tight 9" semi-domed heads set high on the plants. Good holding quality in September/October and worth a try for August production. Medium-sized tight beads with good flavor. We plan to drop this variety after this year as it has not caught on with customers. Tolerant to DM. ⑤ **A**=0.5g, $1.40, **B**=1g, $2.50, **C**=4g, $7.00, **D**=14g, $20.00. *Not available in larger sizes.*

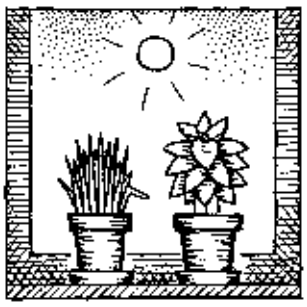
3456PO Purple Peacock OG (92 days) Meet the latest improvement in Frank Morton's Goliath-Peacock series, a gourmet ornamental edible cross of a large green broccoli with a colorful flowering kale. This version is more uniform than previous incarnations. All have heads, similar coloration and leaf shape. Wavy-looking deeply-cut purple leaves with rounded edges are punctuated by pink veins. The sweet broccoli flavor of the head and abundant side shoots is augmented by the kale-like quality of the leaves, especially as fall delivers its first cold nights. An imposing plant, 2½' tall, spreading 2-3', which makes quite a spectacle. Purple leaves and heads cook to a dark green or can be enjoyed out of hand or in salads. OT-certified. ① **A**=0.5g, $1.00, **B**=1g, $1.80, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $24.00

3460LY Liberty (93 days) We could all use more Liberty. No, this broccoli won't repeal the Patriot Act, appoint justices committed to the separation of church and state, or send the administration packing. But it will pack up impressively. No, it can't ensure that our "public servants" serve all of the people instead of just the rich, but it might make you a little richer. No, it's unable to perform brain transplants for heads of state, but it knows how to grow a pretty impressive head. In fact, the folks at Loon Song Farm grew a 17" head! Yours is more likely to be half that size, a semi-dome with medium-sized green green beads. Despite more than the normal vagaries of weather this past summer, Liberty was remarkably consistent. Since maturing on Sept. 1 (from a July 2 transplanting) it has been cranking out side shoots and was still going strong on Oct. 20. **NEW! A**=0.5g, $1.30, **B**=1g, $2.20, **C**=4g, $8.00, **D**=14g, $18.00, **E**=28g, $35.00



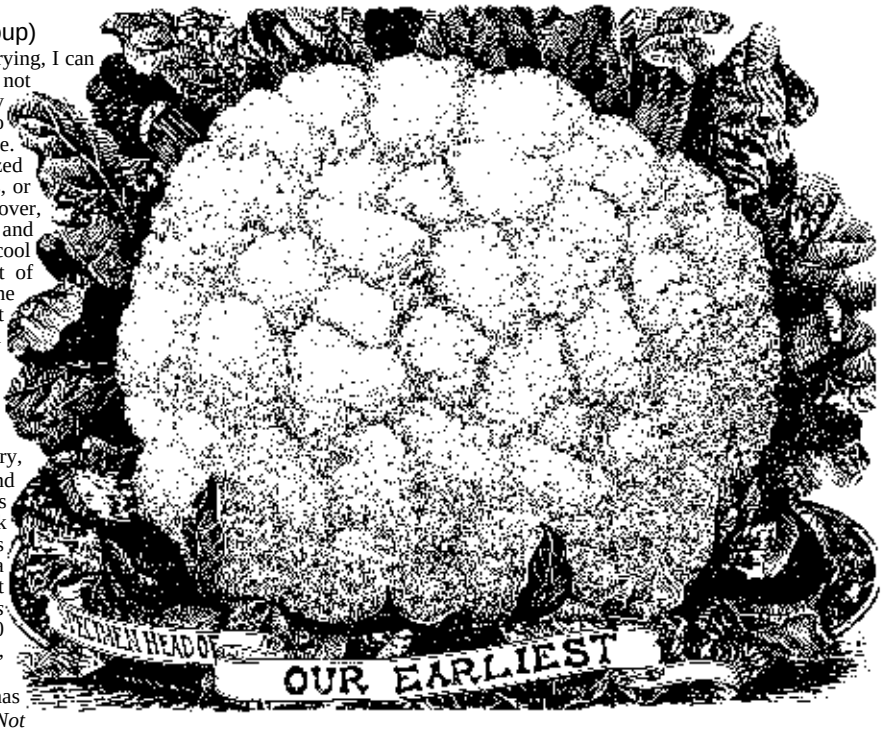
3462AR Arcadia (94 days) The summers from 1989-1991 were three of the hottest on record. Yet, Arcadia thrived in conditions that reduced other broccoli to compost. We hadn't been able to obtain untreated seed since 1999, but customers remembered and kept clamoring for its return. They want Arcadia's frosty bluish-green heads with very refined small beads that hold a long time, its gently mounded dome-shaped heads of consistent marketable quality. Yes, Arcadia is big and rugged, standing up not just to heat, but also to rot, mildew and cold stress as well. *The best broccoli for midsummer is good in fall, too.* ④ **BACK! A**=0.5g, $1.30, **B**=1g, $2.20, **C**=4g, $8.00, **D**=14g, $18.00, **E**=28g, $34.00

3475BB Broccoli Blend (73-94 days) For home gardeners who want broccoli to mature over a long season, a mix of varieties in one packet makes a lot of sense. Begin your harvest with Packman and carry through to Arcadia without having to purchase a full packet of each kind. ⑤ **A**=0.5g, $1.10, **B**=1g, $2.00, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $26.00



BRUSSELS SPROUTS *B. o.* (gemmifera group)

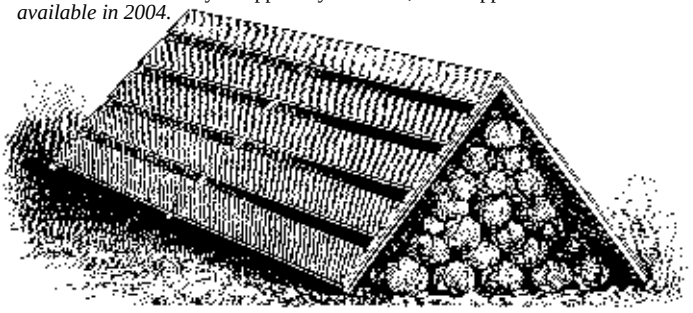
3480LV Oliver (90 days) F-1 hybrid. "After many years of trying, I can finally grow brussels sprouts." Karen Gill of Kirkland, IL, is not alone. Oliver inspires such testimonials because it is so early and so easy to grow. The ten varieties in our 1999 trial had to overcome a late start, excessive heat and inadequate moisture. Oliver, alone, came through, producing nice tight good-sized flavorful sprouts, with none of the rank open sprouts, suckers, or retarded tiny buttons that bedeviled the other kinds. Moreover, Oliver was several weeks earlier than most of the others, and tasted good even before frost. In 2000, under more favorable cool wet conditions, we did a rerun with mostly the same cast of characters. Although production was better across the board, the final result was the same: with its classic good shape, tight buds and mild flavor, Oliver was way ahead of the pack in all categories. Deservedly our best-selling brassica. ⑤ **A**=0.5g, $2.00 (~80 seeds), **B**=1g, $3.50, **C**=4g, $12.00, **D**=14g, $40.00, **E**=28g, $75.00



CABBAGE *B. o.* (capitata group)

3503HE Hermes (62 days) F-1 hybrid. Quick as Mercury, Hermes is off and growing, racing to produce its 2 lb. round heads. Perfect for the home garden where its compactness permits closer spacing, its small firm heads allow quick consumption and its burst resistance preserves its usefulness for several weeks. One head in our trials stood for over a month. With its small core, rich dark green color and excellent flavor, an appealing early cabbage. *Caution: Hermes seedlings drop leaves in cold, windy conditions.* ⑤ **A**=0.5g, $1.00 (~140 seeds), **B**=1g, $1.80, **C**=4g, $6.00, **D**=14g, $14.00, **E**=28g, $24.00

3506CL Columbia (74 days) Alas, this gem of cabbages has been unceremoniously dropped by Seminis, the supplier. *Not available in 2004.*



3508GP Grand Prize (76 days) Seminis is dropping this one, too, but first we secured several years' supply. Seminis won't get any blue ribbons from us this year. The top choice in Jeanne Griffin's early cabbage trial, she praised its extra size, sweet juicy flavor and classy looks. Slightly flattened heads average 5 lb. with tight wrapper leaves. FY resistant. ⑤ **A**=0.5g, $1.00 (~70 seeds), **B**=1g, $1.80, **C**=4g, $6.00, **D**=14g, $10.00, **E**=28g, $18.00

3526SR Super Red 80 (80 days) Super Red 80 ripens after Laso, but well before Ruby Perfection, with tight round medium-dark red heads in the 3-5 lb. range. Splendid appearance will please market growers. ④ **A**=0.5g, $1.50 (~90 seeds), **B**=1g, $2.50, **C**=4g, $8.00, **D**=14g, $22.00, **E**=28g, $40.00

3536RP Ruby Perfection (85 days) This fancy midseason type has produced some of the loveliest cabbage we've ever seen: solid deep purple-red globe-shaped heads averaging 4-6 lb, occasionally reaching 8 lbs. A great storage cabbage; will keep till May in the root cellar. Low tolerance to black rot. ⑤ **A**=0.5g, $1.40 (~125 seeds), **B**=1g, $2.50, **C**=4g, $7.00, **D**=14g, $24.00, **E**=28g, $44.00

3538ML Melissa Savoy (85 days) Here is a gorgeous savoy, with 2-4 lb. solid slightly flattened light green heads surrounded by attractive dark blue-green waxy wrapper leaves. A vigorous grower even in cold wet conditions, in 2000 Melissa ripened around Sept. 1 from an early June transplanting. Flavor improves with cold weather. Adaptable to close spacing. For dependability, uniformity, attractiveness and taste, Melissa can't be topped. FY, tipburn tolerant. ④ **A**=0.5g, $2.00 (~110 seeds), **B**=1g, $3.00, **C**=4g, $10.00, **D**=14g, $30.00, **E**=28g, $50.00

CAULIFLOWER *B. o.* (botrytis group)

3544MJ Majestic (68 days) Our earliest cauliflower, reliable and reasonably sized for summer production. Heads average 5-6", weighing from 10 oz. to l lb. with good color. Rugged enough to withstand hot dry conditions. ④ **A**=0.5g, $2.00 (~70 seeds), **B**=1g, $3.00, **C**=4g, $9.00, **D**=14g, $30.00, **E**=28g, $50.00

3552SC Snow Crown (70 days) Though we continue to trial early cauliflowers, nothing comes close to Snow Crown. Makes cauliflower a cinch to grow. Dependable producer of uniform 6-7" heads early summer through October. Drought resistant. Very early. Some tendency for pink heads in adverse conditions. 1975 All-America winner from Takii. ⑤ **A**=0.5g, $1.50 (~70 seeds), **B**=1g, $2.50, **C**=4g, $8.00, **D**=14g, $26.00, **E**=28g, $48.00

3561RM Rushmore (74 days) Rushmore stands alone as the best second-early variety for the Northeast, a reliable producer of uniform 2 lb. very white high-domed heads which look good even in the heat. Its large frame and dark green leaves provide some curd protection from sun and frost. Slightly larger, later and more uniform than Snow Crown with no pink heads. Pricey but worth every penny. ⑤ **A**=0.5g, $2.00 (~113 seeds), **B**=1g, $4.00, **C**=4g, $12.00, **D**=14g, $40.00, **E**=28g, $70.00

3570VG Violet Queen (80 days) About halfway between broccoli and cauliflower, each plant sets one purple head which doesn't require tying. No side shoots. A tasty novelty for adding color to salads and dips. Turns light green when blanched. ⑤ **A**=0.5g, $2.00 (~100 seeds), **B**=1g, $3.60, **C**=4g, $12.00, **D**=14g, $38.00, **E**=28g, $70.00

3573GR Graffiti (80 days) The aliens have landed in the cauliflower patch! The brilliant, almost psychedelic purple of these good-sized heads is decidedly other-worldly. It will surely draw customers to your market display and keep them lingering. So beautiful that trialer Donna Dyrek was unwilling to pick her first head, instead opting to let it stand weeks in the garden. Much brighter purple than Violet Queen, Graffiti boasts a true cauliflower head on large plants with dark green leaves. Colorful florets make delightful crudités or a delicious cooked vegetable. However, the color fades to bluish-purple when cooked. Our trialer intends to put hers into kimchi for the color. Best production for fall harvest. ④ **NEW! A**=0.1g, $2.00, **B**=0.2g, $3.00, **C**=1g, $12.50, **D**=4g, $48.00, **E**=16g, $180.00

3578CC Candid Charm (95 days) Charm produces large curds, in the same class as Dominant, but less fussy. Holds snow-white color a long time. Recommended for fall crops only. We've grown some awesome heads, most in the 3-4 lb. range. I still brag about the biggest one of all. It was 12x14", weighed 6½ lb. and won a cauliflower-growing contest with Celeste Dore in 1987. ④ **A**=0.5g, $2.00 (~100 seeds), **B**=1g, $3.00, **C**=4g, $10.00, **D**=14g, $30.00, **E**=28g, $50.00

KALE *B. o.* (acephala group)

3582RB Redbor (60 days)
"So glad you have the Redbor kale.
Makes folks feel hearty & hale." —M. Schultz
A spectacular all-red kale! Frilly ruffled leaves take on a dramatic purple coloration in cool weather. Can be grown in summer but really comes into its own in fall. Quite cold hardy. Grows to 3'. For a rainbow kale patch interplant with White Russian, Red Russian, Konserva and Nero di Tuscana. ④ **A**=0.5g, $2.00 (~100 seeds), **B**=1g, $3.50, **C**=4g, $12.00, **D**=14g, $38.00, **E**=28g, $70.00

3586WB Winterbor (60 days) Winterbor was the most vigorous grower in each of our last three kale trials, showing the best cold hardiness and the richest blue-green color. Curled leaves are highly ruffled. "Great in summer, after a frost, and in winter," says Bill Half. ④ **A**=0.5g, $1.50 (~95 seeds), **B**=1g, $2.50, **C**=4g, $8.00, **D**=14g, $22.00, **E**=28g, $40.00

KOHLRABI *B. o.* (gongylodes group)

3594KB Kolibri (45 days) The best purple kohlrabi we've found. It is quick growing, very uniform, purple on the outside, crisp and white on the inside. Interplant with #**3036** Bright Lights swiss chard for a dazzling display. ④ **A**=0.5g, $1.20 (~140 seeds), **B**=1g, $2.20, **C**=4g, $7.00, **D**=14g, $22.00, **E**=28g, $40.00

ARTICHOKE, CELERY, EGGPLANT, OKRA

Days to maturity are from date of transplanting, not seeding.

GLOBE ARTICHOKE *Cynara scolymus*

Artichoke seed needs vernalization to trick it into thinking it has already gone through a season of growth. Start indoors in mid-February at warm temperatures (at least 60˚) avoiding direct hot sun or overwatering (misting is preferred). Transfer after 6 weeks to a cold frame when outdoor temperatures stay above 25˚. Keep as cool as possible over the next 6 weeks without going below 25˚. Set out with IRT plastic mulch (#9096-8) and/or row covers. Feed heavily and give almost as much space as Romanesco Broccoli (10 sq. ft. per plant).

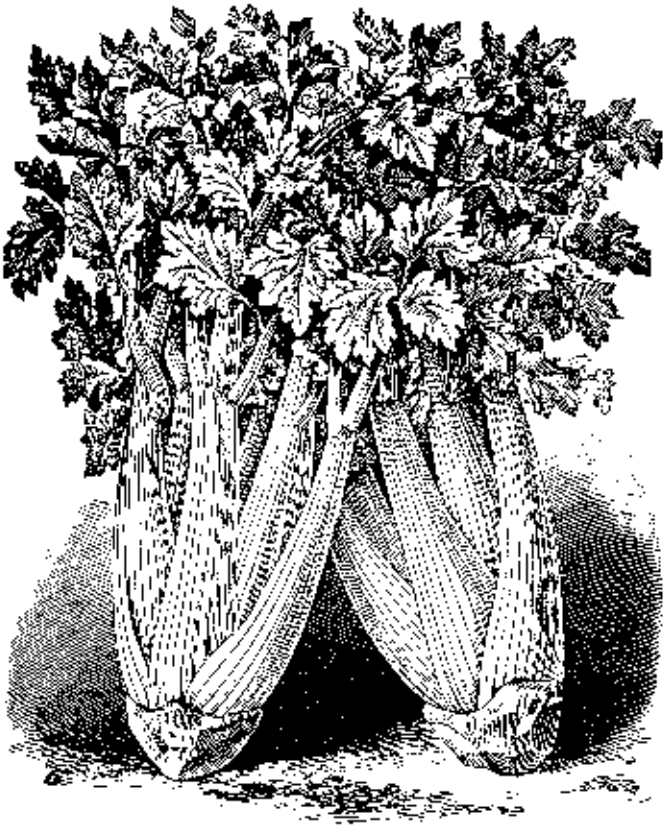
3608MP Imperial Star (120 days) Open-pollinated. This delicious vegetable is now accessible to northern gardeners. We've seen good specimens at Hidden Valley Farm in Alna and at Forest Farm in Harborside. Market gardener Alan LePage in Barre, VT, has gotten as many as eight fruits off a single plant. While that's unusual, most plants will bear more than one, producing in the cooler fall weather which they prefer to summer's full heat. Plants (both seedlings and mature) can tolerate light but not hard frosts. *Caution: May not ripen in northernmost areas.* ③ **A**=0.5g, $1.20 (~10 seeds), **B**=1g, $2.20, **C**=4g, $8.00, **D**=28g, $35.00

CELERY & CELERIAC *Apium graveolens*

0.2 gram packet about 540 seeds, 0.4 gram packet about 1080 seeds, 75,000 seeds per oz. Tender, must be started indoors in March, 10-12 weeks before setting out. Slow growers require rich moist soil to survive. Celery survives light fall frosts but gets kayoed by serious cold.

3616AF Afina Cutting Celery (60 days) Open-pollinated. Sturdy dark green foliage has rich aroma and taste, regenerates quickly after cutting. Imparts the same flavor to stews and soups as conventional celery. Although its culture is the same, it is much hardier and easier to grow. Both its thin hollow stems and its leaves can be used fresh or dried. Grows up to 30" tall. ④ **A**=0.2g, 80¢ (~545 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=4g, $3.50, **E**=28g, $10.00

3624VE Ventura Celery (80 days) *A. g.* var. *dulce* Open-pollinated. Ventura takes the difficulty out of growing celery. Develops beautiful thick crisp stalks with rich but never harsh flavor even in less than ideal conditions. Because it has some tolerance to fusarium, Ventura doesn't seem to get the punky centers which sometimes plague Utah. Young plants need adequate moisture; irrigate if necessary. Presumably named for Ventura County, CA, where celery is the third-leading cash crop. ⑤ **A**=0.2g, 80¢, **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=4g, $4.00, **E**=28g, $12.50



3629GR Giant Red x Ventura ECO (84 days) F-1 hybrid. What an inspiration by Frank Morton to cross these two! This is a marriage of opposites that brings out the best in both partners and hides away the flaws. Wanting to offer red celery, we trialed heirloom Giant Red in 1998, but found it tough, stringy and too strong for modern palates. But when combined with Ventura, the harshness and textural flaws disappear. The result is a delicious chewy stem with plenty of red coloration in the interior. Not quite as tender as Ventura but with an enhanced flavor that will really enliven soups, salads and casseroles. ① **A**=0.2g, 80¢, **B**=0.4g, $1.50, **C**=1g, $2.50. *Not available in larger sizes.*

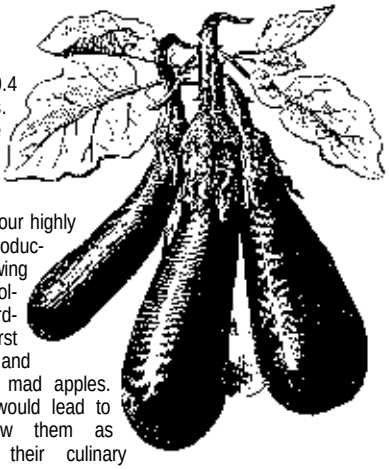
3630RO Redventure OG (84 days) F-1 hybrid. This is the same variety as above, organically grown and dressed in a new jazzy name. Be adventurous and try it: nothing redventured, nothing gained! OT-certified. ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=4g, $5.00, **E**=28g, $18.00

3632PO Par-Cel Cutting Celery OG (72 days) Market gardener Eva Sommaripa suggested that we carry this curly cutting celery which looks like parsley but tastes more like celery. When we could not find a commercial supplier, she grew the seed for us herself. In several outdoor trials we've found it a fussy germinator, so we recommend an indoor start. Although it withstands heat and drought, Par-Cel is remarkably cold-tolerant, lasting well into late fall, and tremendously vigorous once established. Cut leaves back once the roots are well-established. Older leaves develop a flavor too strong for most palates. BSO-certified. ① **A**=0.2g, 90¢ (~400 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=4g, $9.00. *Not available in larger sizes.*

3644DM Diamante Celeriac (100 days) *A. g.* var. *rapaceum* F-1 hybrid. Hesitant to try celeriac? Think it might be strong, harsh or woody? *"Au contraire"* opines *The Avant Gardener*. It is a staple in central and eastern Europe and should be more popular here. Its nutty parsley-celery flavor, which is improved by light fall frosts, enhances meat, fish and poultry. It may be boiled, mashed or braised. Diamante is a classy celeriac with roots that stand above the ground (for ease of harvest and cleaning), size up quickly with no hollow crown and very few offshoots. An early start indoors is essential for good yields. Diamante's clean white internal coloration and superb eating quality are sure to please. Can be stored up to six months in moist sand in the root cellar. ④ **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.20, **D**=4g, $12.00, **E**=28g, $80.00

EGGPLANT

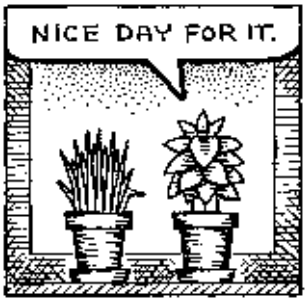
Solanum melongena

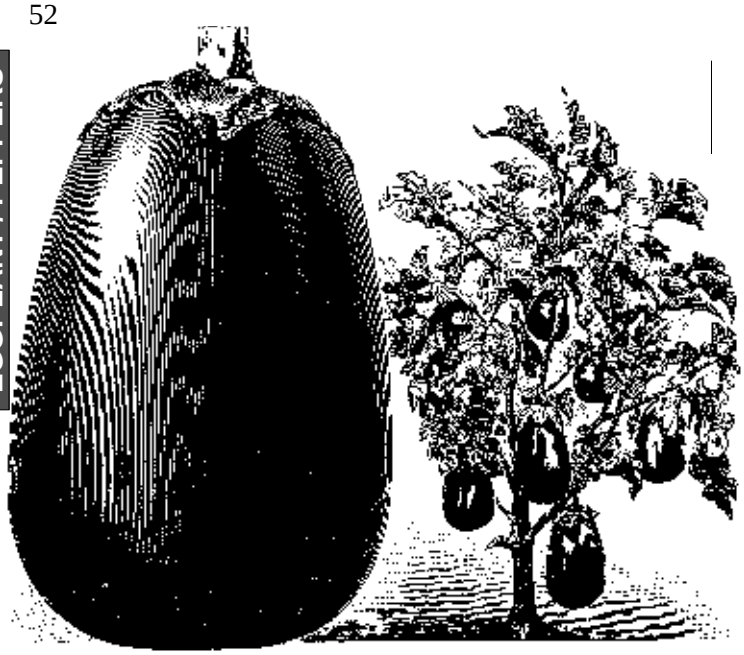


0.2 gram packet about 48 seeds, 0.4 gram packet about 96 seeds. Growing eggplant is a real challenge in our short season. The selections below are the most reliable producers we've found. We are looking for more, but often in our climate even our highly skilled trialers can get only sparse production of ripe fruits. Likes same growing conditions as peppers. Jean Ann Pollard relates that eggplants were regarded with suspicion when they first reached Europe from India, China and the near East, even being called mad apples. People thought that eating them would lead to insanity. Americans initially grew them as ornamentals before discovering their culinary qualities.

3666SW Swallow (51 days) F-1 hybrid. Can't grow eggplant? Read on. "I find that eggplants…, no matter what I do, are rather like sheep: they are born trying to die. Swallow eggplant lives! At the end of last summer (2000: cool, wet, discouraging), four plants buried me in fruit. I even froze some—unheard of. A gold star for Swallow," writes Judy Weymouth of Buxton, ME. Swallow is *early*, producing glossy purple-black tender fruit of the elongated (1¾x7") oriental type without the bitterness often associated with larger eggplants. Our most popular eggplant with sales of more than 1,100 packets per year. ⑤ **A**=0.2g, $1.20 (~55 seeds), **B**=0.4g, $2.00, **C**=1g, $4.80, **D**=4g, $16.00, **E**=28g, $100.00

3673PL Pingtung Long (58 days) F-1 hybrid. Named for a town in Taiwan. Long Chinese eggplant will please cooks who enjoy the ease of working with uniform slices. Plants are vigorous, stress tolerant, and start producing early for a decent overall yield. If Pingtung is harvested before full maturity its light purple color is especially appealing. As it approaches its full 11" length, its skin will darken but retain a pleasing sheen. Has an appealing sweetness without bitterness that will keep you coming back for more. ③ **A**=0.2g, 80¢ (~60 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=4g, $4.00, **E**=28g, $18.00





3678AG Applegreen (70 days) Open-pollinated. I'm sitting in a hospitable kitchen on a late summer afternoon. Spread before me is a smorgasbord of eggplant varieties, lightly brushed with olive oil and garlic and grilled to perfection. A gardener's dream…yes…but also one round of Fedco's taste testing. Today one eggplant gets selected because it is flavorful, non-bitter and tender: Applegreen. Developed in 1964 by legendary University of New Hampshire plant breeder Elwyn Meader, this rounded light apple-green eggplant, about 6x4½" is early and productive—a winning combination for eggplant aficionados in the North. Bon appetit! ③ **A**=0.2g, 80¢ (~60 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=4g, $4.00, **E**=28g, $18.00

3682DU Dusky (75 days) F-1 hybrid. A dependable producer for the North. Glossy black fruits medium-sized, oval, firm. Resistant to TMV. ⑤ **A**=0.2g, $1.10 (~42 seeds), **B**=0.4g, $2.00, **C**=1g, $3.00, **D**=4g, $7.00, **E**=28g, $35.00

3686CL Cloud 9 (80 days) F-1 hybrid. The expression "Cloud 9" probably came from the U.S. Weather Bureau which divided each class of clouds into 9 types. It was popularized in the 1950s by the Johnny Dollar radio show in which the hero was frequently knocked unconscious and transported to Cloud 9. I can only presume the person at Seminis who named this white eggplant thought it was so good that it will knock you out and send you to Cloud 9! And it *is* good, sweet and bitter-free, as well as unusual for its pure white (not ivory) elongated oval fruits. The enormous plants grow 4' tall and spread 3'. They should not be set out until daytime temperatures consistently exceed 70˚, or they may get stunted. They like warm nights, too. The weather in June 2001 was very suitable, that of the last two Junes not so good. Given proper conditions they are heavy yielders of perfect fruit. Resistant to TMV. ⑤ **A**=0.2g, $1.10 (~40 seeds), **B**=0.4g, $2.00, **C**=1g, $3.20, **D**=4g, $8.00, **E**=28g, $35.00

3690RB Rosa Bianca (88 days) Open-pollinated. Called by Vermont market grower Alan LePage "the best eggplant in the universe," with a creamy, pudding-like consistency and delicate flavor unmatched by any other variety. Gorgeous fruits, white with lavender streaking down the side, can command $3 a pound at markets. Quite different from those familiar slender black types, Rosa is plump, about 3-4" across and 5" long, narrow at the top and widening with indentations almost in folds like draped fabric. Fruits average 2 lb, max out at 4 lb, making it LePage's highest-yielding eggplant. Rosa needs to be coddled, particularly in the northern half of New England. Needs alternating temperatures to break dormancy: warm days (preferably 80s), cooler nights (around 70˚). We recommend raised beds, row covers and plastic or IRT mulch. Italian heirloom. ②③ **A**=0.2g, 80¢ (~60 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=4g, $4.00, **E**=28g, $18.00

OKRA *Abelmoschus esculentus*

2 gram packet contains about 30 seeds. Okra is very tender and requires a lot of heat. Direct seeding is marginal in our climate. We recommend starting indoors in peat pots in warm (80˚) temperatures and transplanting in 4-5 weeks, after all danger of frost has passed. Transplant 1' apart; do not disturb roots. Pods are best when picked young and tender, no longer than 4".

3696CJ Cajun Delight Okra (70 days) F-1 hybrid. In our search for okra for our northern clime, earliness is of paramount importance. Even in our "endless spring" seasons of 1996 and 2000, All-America winner Cajun Delight ripened with ease, and its tender dark angular pods kept on producing until frost. Those unexposed to this southern delicacy should try combining it with other ingredients in a gumbo or frying it. Add vinegar while it is cooking if you wish to circumvent its mucilaginous nature. ⑤ **A**=2g, $1.20 (~30 seeds), **B**=4g, $2.00, **C**=28g, $13.00, **D**=112g, $48.00

Open-pollinated PEPPERS

Capsicum annuum

Room temperature is not sufficient to germinate pepper seeds. They need 80s. Very tender, will not tolerate frost, dislike windy spots, will not set fruit in cold or extremely hot temperatures or in drought conditions. Some years are great for growing peppers in our climate, some, like 2003, are not. Start indoors March or April. Set out June. Black plastic highly recommended. Pick first green peppers when they reach full size to increase total yield significantly. Green peppers, though edible, are not ripe. Peppers ripen to red, yellow, orange, etc.

For all peppers, days to full-color maturity are from transplanting date.

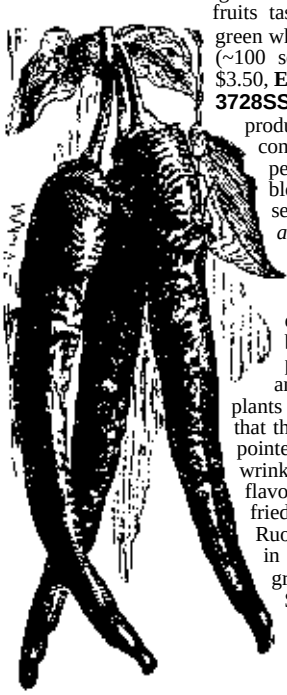
SWEET PEPPERS

3703KL Klari Baby Cheese ECO (65 days) Also known as Golden Delicious Apple Pepper. From Hungary, a Fedco introduction. Cheese peppers are flattened, white when unripe, and filled with a soft core. Shaped like 3" Rouge Vif d'Etampes pumpkins, the squat thick-walled 4 oz. fruits with mild and sweet cores were unlike anything we'd ever tried. I am not a wild-eyed pepper aficionado, but I couldn't stop eating these delicious summertime treats out of hand. Traditionally they are pickled whole after ripening from white to yellow to red. Named after the woman who has maintained this heirloom seed stock. Seed grown by Canyon Bounty Ranch in Idaho, transitional to organic. ① **A**=0.5g, 90¢ (~70 seeds), **B**=1g, $1.60, **C**=2g, $2.80, **D**=4g, $4.50, **E**=28g, $25.00

3706KN King of the North (70 days) Back in the late eighties when Seed Savers Exchange founder Kent Whealy keynoted at Common Ground Fair we asked him to suggest an open-pollinated pepper that would ripen in the North. His suggestion was King and it has been our most popular open-pollinated bell pepper ever since. A good choice for those who want marketable blocky peppers but can't get Staddon's Select to set fruit. ⑤ **A**=0.5g, 60¢ (~100 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $6.00

3715BO Boldog Hungarian Spice Sweet Paprika OG (71 days) This Boldog from Hungary has no bite. A prolific bearer of 6x4" 2-lobed pendant fruits which are picked red, and ground into sweet paprika or strung into decorative paprika ristras. These bright tapering fruits also make good fresh eating. Boldog sets enough fruit to accomodate all three uses. ID-certified. ① **A**=0.5g, $1.10, **B**=1g, $1.80, **C**=2g, $3.20, **D**=4g, $5.50

3722PB Purple Beauty (74 days) Produces a good yield of blocky 3x3" fruits which turn from green to purple to deep red as they mature. Purple fruits taste like other crisp green bells. Will turn green when cooked. Plants 18-20". ②③ **A**=0.5g, 70¢ (~100 seeds), **B**=1g, $1.20, **C**=2g, $2.00, **D**=4g, $3.50, **E**=28g, $20.00



3728SS Staddon's Select (74 days) Early production of good-sized fruit in adverse conditions. Large glossy dark green 3-4 lobed peppers on tall bushy plants. A good large blocky market-type pepper where fruits will set. *Caution: not adapted to northernmost areas.* ② **A**=0.5g, 70¢ (~100 seeds), **B**=1g, $1.20, **C**=2g, $2.00, **D**=4g, $3.50, **E**=28g, $10.00

3730JN Jimmy Nardello's ECO (76 days) This thin-walled 8" frying pepper has been winning many converts. Donna Dyrek prefers it to Banana Supreme in looks, taste and productivity. David Shipman reports his plants one year were so weighed down by peppers that the branches broke. The long curved tapering pointed fruits turn deep red when ripe with shiny wrinkled skin. They have a pleasing sweet mild flavor good raw, in stir fries and, especially, fried. Brought to Connecticut from the village of Ruoti in the Basilicata region of Southern Italy in 1887 by Jimmy Nardello's mother. Seed grown in Maine by Tom Vigue. ① **A**=0.2g, $1.00, **B**=0.4g, $2.00, **C**=1g, $4.00, **D**=2g, $7.00, **E**=4g, $13.00

3733AC Aconcagua (80 days) One way we choose winning peppers is by paying attention to what our trialers grow for themselves the following year. Aconcagua is just such a variety, proven over several seasons. A long frying pepper, named for Mt. Aconcagua in Argentina, at 22,831 feet the highest peak in the Andes. Very adaptable to our northern climes, it cranks out a steady supply of large tapered 7x2¼" light green fruit on 2½' plants. As peppers turn from yellow to red the medium-thick flesh will sweeten. Crisp, juicy and mild for eating out of hand and good for roasting. ② **A**=0.5g, 70¢, **B**=1g, $1.20, **C**=2g, $2.00, **D**=4g, $3.50, **E**=28g, $20.00

3735CO Chocolate OG (80 days) Our warehouse crew is indiscriminate and voracious when it comes to chocolate. But our trial evaluators were much more circumspect, rejecting various strains of chocolate peppers over the years as being far too unproductive until we found this chocolate. Seed grower Donna Dyrek reports every plant has at least a dozen fruits, some 20 or 30, so many that some plants are falling over and lying on their sides! 6-8" tapered fruits turn from green to brown. The thickly-walled flesh (burgundy-red inside and chocolate outside) has the great taste when ripe that we've looked for all these years. MOFGA-certified. ① **A**=0.2g, $1.50 (~30 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $7.00, **E**=4g, $13.00, **K**=14g, $45.00

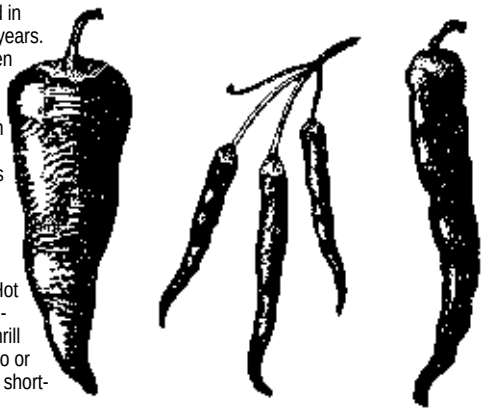
3738CU Cubanelle (80 days) Our customers asked for this semi-sweet frying pepper. 6x2" waxy yellow-green fruits turn red. Not pungent. ③ **A**=0.5g, 60¢ (~82 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $5.00

3741PO Amish Pimiento OG (85 days) *Crop failure. Not available in 2004.*

3742WE Sweet Pimiento ECO (85 days) The Amish pimiento crop failed on our cold Maine summer, but we found this close substitute grown in the North Carolina mountains. Relatively early and productive. Enjoy their rich fruity taste. **NEW!** ① **A**=0.2g, $1.00, **B**=0.4g, $2.00, **C**=1g, $4.00, **D**=2g, $7.00, **E**=4g, $13.00, **K**=14g, $45.00

3746FH Feherozon ECO (90 days) My first introduction to this extraordinary pepper was in a jar...dried and ground to a wonderfully sweet paprika. I was intrigued. The field reports didn't even consider this aspect, instead extolling Feherozon for incredible productivity: up to two dozen 3x4½" pointed light yellow fruits per plant. One trialer fed her entire neighborhood with these sweet juicy and flavorful peppers. Any not eaten fresh will eventually turn red and can be dried for an absolutely delicious paprika. ① **A**=0.2g, $1.00 (~40 seeds), **B**=0.4g, $2.00, **C**=1g, $3.50, **D**=2g, $5.00, **E**=4g, $8.00

Open-pollinated HOT PEPPERS



Chilies have been consumed in Mexico for more than 5,000 years. The Aztecs had at least seven different words for hot peppers and the Incas of Peru used peppers as a form of currency. In the States popularity of hot peppers has increased dramatically in recent years with per capita consumption of chiles now exceeding that of peas, asparagus and cauliflower. Hot pepper eaters enjoy the "constrained risk" of a pleasant thrill which, unlike alcohol, tobacco or coffee addictions, has only a short-term effect and is not health-threatening. Capsaicin compounds cause most of the heat in peppers. Warm nighttime temperatures stimulate maximum development of capsaicins and increase pungency levels. Pungency is expressed in Scoville units, after Wilbur Scoville, an Englishman who devised the method used for eighty years to measure the heat in peppers. If you overdose on hot peppers, milk is almost twice as effective as water in banking the flames, and bread, rice or tortillas are even better. Handle hot peppers with caution; capsaicin is highly alkaloid, can burn skin, and is even an ingredient in self-defense sprays!

3750GG Tasty Golden Greek (60 days) In our long search for a good traditional pepperoncini pepper, Golden Greek is the closest we've found. It's a bit big, up to 4"x1", but the rich flavor is mildly hot, in the range of an Hungarian Hot Wax, which makes it ideal for pickling. Greenish-yellow in color and slightly tapered, with thin walls and the expected blunted nose, it has all the pepperoncini attributes except size. I've kept this pepper in my rotation ever since I first tried it and each year I put by a few jars of Tasty pickled peppers. ③ **NEW! A**=0.5g, 80¢, **B**=1g, $1.20, **C**=2g, $2.20, **D**=4g, $4.00, **E**=28g, $14.00

3751PO Hot Portugal OG (64 days) Bears elongated narrow fruits, 5-8" long, 1" in diameter with the classic wrinkled hip at the stem end. Superb pepper flavor comes through its considerable heat nicely. Not as hot as Super Chili, but hotter than Early Jalapeño. Early productive ripener of glossy scarlet fruits borne on tall plants. Listed in the 1935 Joseph Harris catalog. MOFGA-certified. ① **A**=0.2g, $1.00 (~32 seeds), **B**=0.4g, $2.00, **C**=1g, $3.00, **D**=2g, $5.00

Czech Black (65 days) This heirloom may bear the most beautiful of all peppers. Black when immature, the 2½" long conical fruits ripen to a lustrous garnet—so striking that seed grower Roberta Bailey kept a bowl on her table just to admire. Mild juicy flesh runs with a cherry red juice when cut. The heat, a tad less than a jalapeño's, is in the ribs and seeds. 2½-3' bushes bear very early, setting about 20 pointed thick-walled peppers per plant.

3752CB Czech Black ECO Seed grown in Maine. ① **A**=0.2g, $1.00 (~30 seeds), **B**=0.4g, $2.00, **C**=1g, $4.00, **D**=2g, $7.00.

3753CO Czech Black OG MOFGA-certified. ① **A**=0.2g, $1.50 (~30 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $7.50, **E**=4g, $14.00, **K**=14g, $48.00

3754HH Hungarian Hot Wax (68 days) Numerous customers requested this semi-hot type which sets even in cool weather. Smooth waxy yellow 5½x1½" fruits taper to a point. Originated in Hungary, 1941. 700 to 3,000 Scovilles. Nikos' favorite for chile rellenos. ③ **A**=0.5g, 60¢ (~82 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $5.00

3756BC Bulgarian Carrot Chile (68 days) Also known as Shipkas. We first saw this show-stopper at Amy LeBlanc's farm. Colored like a polished fluorescent-orange carrot, the thin-walled 1½-3½" tapered fruits are as hot as they look, and will make welcome additions to chutneys, marinades and salsas, and excellent pickles. Their fruity undertone nicely complements their heat. Plants grow just 18" tall, yet produce clusters of peppers close to the main stem. Brought indoors, plants produced in Amy's greenhouse till February. Heirloom was smuggled here through the Iron Curtain 25 years ago. ③ **A**=0.5g, $1.10 (~85 seeds), **B**=1g, $2.20, **C**=2g, $4.00, **D**=4g, $6.00, **E**=28g, $32.00

3760PP Pretty in Purple (73 days) It's a treat to watch the array of colors on this strikingly ornamental pepper. The masses of rounded small shiny red hot peppers start deep purple, progressing through yellow, orange and scarlet as they ripen. The contrast between the green/purple foliage and the various colors of the fruits all in different stages of ripening makes Pretty in Purple spectacular. The peppers, in addition to delighting the eye, may be used sparingly to add piquancy to dishes. Plant habit upright but spreading. ③ **A**=0.5g, 80¢ (~100 seeds). *Seed in short supply; order early.*

3764EJ Early Jalapeño (75 days) Hot, hot, 3x1" sausage-shaped blunt fruits mature early. Characteristic brown netting appears as fruit ripens from dark green to dark red. Packing the seed makes us teary-eyed! 4,000 to 6,500 Scoville units at maturity. ⑤ **A**=0.5g, 60¢ (~82 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $5.00

3770CY Long Red Narrow Cayenne (75 days) Often curled and twisted, the wrinkled peppers grow 5-6" long, ½" across, and taper to a point. Dark green color changes to bright red. Prolific and hot. Pre-1827 heirloom. Pungent; 3,500 to 5,000 Scovilles. ③ **A**=0.5g, 60¢ (~100 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $5.00

Matchbox (75 days) Matchbox, a new hot pepper, is a product of many years of dedicated breeding work to create an open-pollinated selection of the hybrid Super Chili. Hungarian Hot Wax and Hot Banana were among the parents. The squat plants bear prolific upright fruit, averaging 2" long, ⅓" across and ripening from pale green to deep scarlet. Like Super Chili, they bear well in cold damp weather, hot dry weather, sandy soils and heavy clay. They have plenty of heat and the characteristic finely cut lightweight leaves of many hot peppers. Can be potted and overwintered.

3772MB Matchbox ECO Seed grown in Maine. May still throw an occasional off-type with immature yellow fruit. True Matchbox fruits are green when immature. ① **A**=0.2g, $1.00, **B**=0.4g, $2.00, **C**=1g, $4.00. *Not available in larger sizes.*

3773MO Matchbox OG Now fully stable. As one customer put it, "All of my Matchboxes were extremely stable, infinitely much more so than me. Congrats Fedco breeders." Seed grown by Roberta Bailey at Seven Tree Farm. MOFGA-certified. ① **A**=0.2g, $1.50 (~66 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00

3778AN Anaheim (78 days) Anaheim is the pepper used for chiles rellenos. 7" long fruits tapering to a point turn from dark-green to red at maturity. Pungent, but not particularly hot. 900 to 2,500 Scovilles. ③ **A**=0.5g, 60¢ (~100 seeds), **B**=1g, $1.00, **C**=2g, $1.80, **D**=4g, $3.00, **E**=28g, $5.00

3781FO Fish OG (80 days) Want to turn a few heads? Grow this African-American heirloom as a border plant. It may be the most attractive pepper plant on the planet with its distinctive green and white mottled foliage and striped fruits. The 2" curving pendant fruits look a little like swimming fish. They turn from white with green stripes to orange with brown stripes to red, packing considerable heat and full-bodied flavor that especially enhances shellfish. A mutation of a common serrano pepper that probably originated in the 1870s, by 1900 Fish was extensively grown by the black community in the Philadelphia/Baltimore region. 2' spreading bush plants benefit from staking. This is not a fish out of water in most parts of New England, but *may require a little too long for the coldest pockets.* Occasional plants will regress to solid green leaves. Rogue out if you are saving seed. Fish crosses readily with other peppers, requiring greater populations and more isolation to keep the strain pure. ID-certified. ① **A**=0.2g, $1.20, **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $7.50, **E**=4g, $12.00, **K**=14g, $36.00

3783TO Thai Hot OG (82 days) Ann Elder gets 200 of these little "sweeties" per plant. She calls them "cute little compact treasures full of heat." Habanero is our only hotter pepper, as Thai Hot checks in around 80,000 Scoville units. Thai Hot's small conical peppers ripen to bright red and stand erect above the foliage so fetchingly that it's grown "in the trade" as a red and green Christmas potted plant. However, devoted followers of hot cuisine prize the sparks it creates. Early pinching will produce a bushy 8" plant that can be pulled, roots and all, and hung to dry for winter use or grown inside for both ornamental and edible enjoyment. MOFGA-certified. ① **A**=0.2g, $1.50 (~66 seeds), **B**=0.4g, $2.50, **C**=1g, $5.00, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $50.00

3792AN Ancho 101 (85 days) Known as Ancho when dried, Poblano when used fresh, this Mexican favorite is wonderfully versatile. Uniform 4x2" thick-walled shiny dark green fruits mature into a deep red. Shaped like a pointed bell with 2 to 3 lobes, the peppers have little heat in the flesh, storing their mildly pungent flavor in their pith and seeds. A heavy cropper in hot climates, Ancho is not "peppered with peppers" in northerly climes like ours. To equal or better their average yield here of four fruits per plant, take care to start them early and protect the first blooms. 1,500-4,000 Scoville units. ⑤ **A**=0.5g, 70¢ (~52 seeds), **B**=1g, $1.20, **C**=2g, $2.00, **D**=4g, $3.50, **E**=28g, $7.00

3796HB Habanero (90 days) *C. frutescens* The name means "from Havana," although they really are from other parts of Cuba and the Yucatan. Also known as Scotch Bonnet, Habanero is one of the most fiery peppers in cultivation, registering a blistering 200,000-350,000 Scoville units, depending on how hot the growing season, from 30-80 times as hot as an Early Jalapeño. Each 1½' plant will set 10-20 pendulous fruits which turn from dark green to tangerine as they mature. Fruits are somewhat wrinkled from stem to tip, with a distinct flavor you will always recognize once you've tasted them. A key ingredient in West Indian jerk sauce. We recommend greenhouse culture for the northern third of our sales area where consistent nighttime temperatures below 70˚ make productivity outdoors iffy. ⑤ **A**=0.5g, 80¢ (~115 seeds), **B**=1g, $1.20, **C**=2g, $2.00, **D**=4g, $3.50, **E**=28g, $15.00

Hybrid PEPPERS

SWEET PEPPERS

The varieties marked 'SHC' were cleaned with a sodium hypochlorite rinse to reduce risk of seed-borne disease. SHC treatment poses no health threats.

3810AC New Ace (60 days) A cinch to grow in the North. Resists blossom drop even in adverse weather so that almost every flower produces. Fruits thin-walled, not blocky, turn red early, good for the home garden. New Ace is an improvement on the old strain, producing fewer misshapen pointy peppers, but still not a majority of classic blocky 4-lobed commercial peppers. ⑤ **A**=0.2g, $1.20 (~40 seeds), **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $50.00

3815FS Fat 'n Sassy (63 days) Peto ought to have called this one "Bold 'n Blocky" because it'll just knock you over with its massive fruit set. They come early, they come often, they come big (4½x4½"), they come blocky, they come sweet, they come thick-walled. You wouldn't believe a 2' plant could carry such a load! "Fat 'n Sassy is the best I've ever grown," says David Macher of Hawley, PA. "Beautiful, tasty fruits I can sell for $2/lb." Became our best-selling pepper in its very first listing and has remained so ever since. In an extension trial at Monmouth, ME, in 2000, Sassy bested eight other varieties in average number of lobes per fruit and was in the top group for fruit size and yield. Widely adapted. Ripens green to red. A great one for stuffing. TMV and PY tolerant. ⑤ **A**=0.2g, $1.20 (~20 seeds), **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $55.00

3820NS North Star (65 days) Early productive sweet pepper sets a high percentage of blocky medium-sized thick-walled green fruits ripening to red. North Star has sufficient foliage cover to prevent sunburn. If you're ready to try for a red pepper that's a little classier than Ace, choose North Star. TMV resistant. ⑤ **A**=0.2g, $1.20 (~33 seeds), **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $50.00

3822GB Greygo Baby (65 days) We've lost the grower for this tasty baby. *We regret not available in 2004.*

3828BS Banana Supreme (68 days) Banana peppers are the sweet complement to Hungarian Hot Wax Peppers. You'll want clear labels *and* demarcations in your garden if you plant both since they look alike but definitely taste different. Color develops from green-yellow to yellow to red with advancing ripeness. For its disease resistance, prolific production, and large 7-8" fruits, Supreme was the best banana pepper in Nikos' impressive trials. *Seed in short supply; order early.* ⑤ **A**=0.2g, $1.20 (~40 seeds), **B**=0.4g, $2.20. *Not available in larger sizes.*

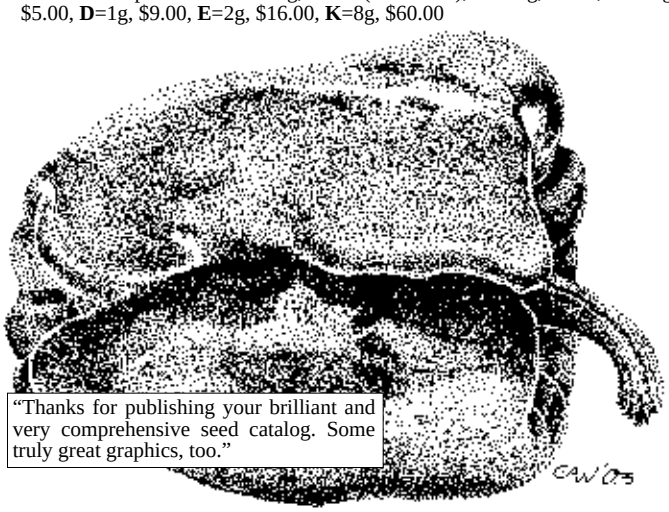
3830TU Turino (68 days) Alas, we've lost the grower. We know you love this pepper and we'll try to get it back. *Not available in 2004.*

3832RK Red Knight X3R® (69 days) Move to Red Knight and fork the competition. These big blocky thick-walled fruity sweet peppers really impressed our trialers. Very early for a pepper of such high quality, the shiny attractive 4½x4½" fruits of the King Arthur type ripen from dark green to an intense red. Strong compact upright plants pack a bundle of disease resistance, to BLS1,2,3, PY and TMV. This Knight will help you capture your markets. **NEW! A**=0.1g, $1.20, **B**=0.2g, $2.40, **C**=0.4g, $4.50, **D**=1g, $7.50, **E**=2g, $14.00, **K**=8g, $50.00

3834SP Spanish Spice (70 days) Not spicy at all, despite its name. It is instead an outstanding Italian frying pepper—tapering, thin-walled and deliciously rich-flavored. Moreover, the plants are sturdy, keeping the large 7" fruits off the ground (a frequent failing of other fryers). Provides lots of green peppers and even a few red ones if you have either skill or luck. Resistant to TMV. ⑤ **A**=0.2g, $1.00 (~30 seeds), **B**=0.4g, $2.00, **C**=1g, $4.00, **D**=2g, $7.00, **E**=4g, $13.00, **K**=14g, $45.00

3836ES Elisa (70 days) Nikos searched years for a pepper to replace Ringer and this one might be a "dead ringer." Early maturity, tolerance to cool conditions, and big beautiful fruit ranging from blocky deep green to elongated red made this a standout in our extensive trials. SHC. Resistant to PY, TEV and TMV. Tolerant to stip. ⑤ **A**=0.1g, $1.20 (~14 seeds), **B**=0.2g, $2.40, **C**=0.4g, $4.50, **D**=1g, $7.50, **E**=2g, $14.00, **K**=8g, $50.00

3839VC Valencia (72 days) Mature rich orange fruits will attract attention at potlucks, markets or fair exhibition halls. Valencia bears four-lobed blocky 4x4" fruit on plants with good foliage cover. Resistant to TMV and tolerant to stip. SHC. ⑤ **A**=0.1g, $1.40 (~12 seeds), **B**=0.2g, $2.60, **C**=0.4g, $5.00, **D**=1g, $9.00, **E**=2g, $16.00, **K**=8g, $60.00



"Thanks for publishing your brilliant and very comprehensive seed catalog. Some truly great graphics, too."

3840VD Vidi (72 days) Cold climate market growers love Vidi! This big beautiful blocky elongated French pepper has shiny dark green thick walls which will reliably turn intense red without deformities. Vidi sets fruit under adverse conditions better than others of its class and is capable of immense yields in optimal conditions. Compact bush resists breakage while providing good canopy. Resistant to TMV, TEV and PY. Stock up, Vilmorin is dropping this classy hybrid. This is the last year we will offer it. *Order early; seed in short supply.* ⑤ **A**=0.1g, $1.20 (~12 seeds), **B**=0.2g, $2.40, **C**=0.4g, $4.50, **D**=1g, $7.50, **E**=2g, $14.00. *Not available in size K.*

Hybrid HOT PEPPERS

3857CH Chilipeño (65 days) *Not available in 2004.*

3859PF Sugar Chile (65 days) Supply unreliable. *Not available in 2004.*

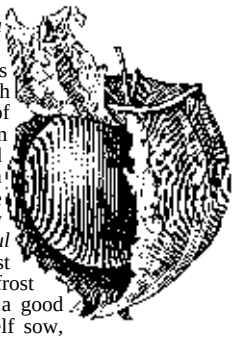
3872GS Garden Salsa (73 days) Bred for those who complain that other salsa varieties are too hot, Garden Salsa's full-bodied sweet pepper flavor comes through without being drowned by capsaicin overload. A great cooking pepper, its fruits provide plenty of kick in homemade salsas. Large plants bear up to a dozen beautiful glossy tapered 8" fruits that ripen to red, but are often harvested green for making salsa. Alec McCloud of N. Orange, MA, reports that his plants grew 5-6' high with "literally 50 peppers on each plant at any time…great flavor, especially roasted on the grill, chopped coarsely with some salt and good olive oil." A consistent performer during three years of trials, often bearing under difficult conditions when others balked. 2,500-3,500 Scovilles. Resistant to TMV. ⑤ **A**=0.2g, $1.20 (~20 seeds), **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $8.00, **E**=4g, $15.00, **K**=14g, $50.00

3878SS Serrano del Sol (75 days) F-1 Hybrid Our first serrano-type pepper, by far the best we've seen. 2½-3' plants just loaded with peppers, 20-30 per bush. Glossy cylindrical fruits exceed 3", larger than other serranos. The narrow green fruits with thick walls ripen dark scarlet with the heat of a hot Hungarian Wax, mild as Serranos go, but plenty hot enough at 4,500-5,500 Scoville units. Tips are the sweetest part, heat increases toward stems. Native to the mountain ridges of Mexico and used in fiery Mexican dishes. Also eaten fresh green in sauces and condiments. Can be used interchangeably with jalapenos. Resistant to TEV, PY and PPMV. ⑤ **A**=0.1g, $1.20 (~13 seeds), **B**=0.2g, $2.00, **C**=0.4g, $3.00, **D**=1g, $7.00, **E**=2g, $12.00, **K**=8g, $40.00

3880SC Super Chili (75 days) Twelve years later the memory of our pepper taste test at Jeanne Griffin's still remains. I required a lot of milk to bank the lingering fires! Super Chili was the hottest of all the varieties we tried with 40,000-50,000 Scoville units. Highly ornamental plants are covered with dozens of green and red 2x½" pointy peppers. Bears prolifically whether summers are wet or dry, hot or cold. 1988 AAS. ⑤ **A**=0.2g, $1.20 (~28 seeds), **B**=0.4g, $2.20, **C**=1g, $4.50, **D**=2g, $7.50, **E**=4g, $14.00, **K**=14g, $50.00

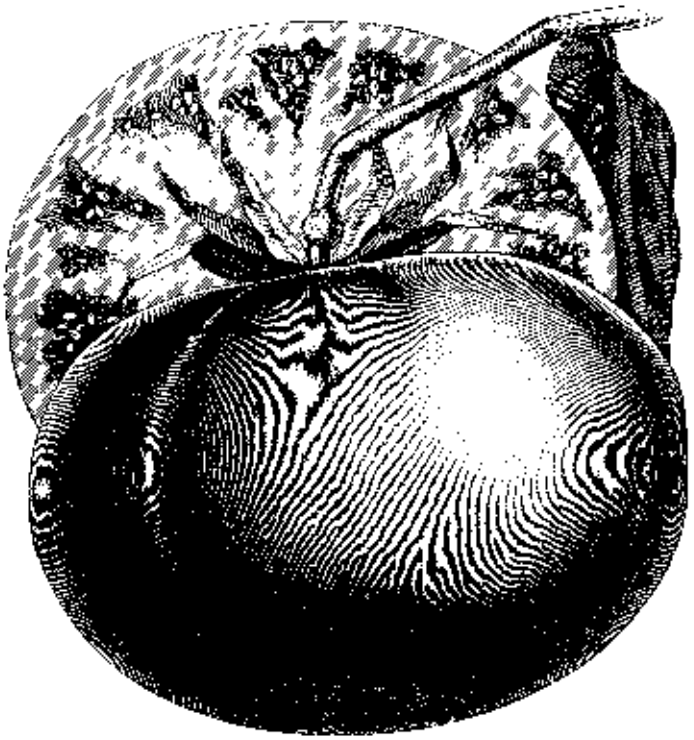
3897SH Some Like it Hot Mix (64-85 days) Love hot peppers but lack the space to try separate packets of each? Our blend of seed for 5-7 different kinds all in one packet is just for you. We'll mix colors, shapes and flavors and include both open-pollinated and hybrid varieties. ⑤ **A**=0.2g, $1.10, **B**=0.4g, $2.10, **C**=1g, $4.50, **D**=2g, $7.50, **E**=4g, $14.00, **K**=14g, $50.00

PHYSALIS



4008HC Husk Cherry (77 days) *P. pruinosa* Open-pollinated. A treat inside every paper wrapper! Also known as Ground Cherry. Same genus as Chinese Lantern and tomatillo, bearing fruits which ripen inside their protective husks. As clusters of berries sweeten, they turn from green to golden yellow, drop off the decorative branching plants, and reach perfection as their husks thin to a near-gossamer papery consistency. The berries have an indescribable nutty flavor that is great for raw snacks. *Don't eat them green—they can be a powerful emetic.* Culture like tomatoes, transplanting after last spring frost. Husk cherries will tolerate a touch of frost but give up when temperatures dip below 30˚. In a good year, about half will ripen in time. Will readily self sow, although volunteers never mature as quickly as those started indoors. ① **A**=0.5g, 90¢ (~700 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $20.00

4014TV Toma Verde Tomatillo (77 days) *P. ixocarpa* Open-pollinated heirloom. Large-fruited uniform strain. To make salsa harvest golf ball-sized green fruits when their papery husk splits. Or allow them to turn slightly yellow for a tangy nutty raw snack. They will split before becoming fully ripe. According to Roger Yepsen, when sautéed "they take on an almost cloyingly rich flavor—buttery, even meaty, as sweet as if brown sugar had been stirred in." ⑤ **A**=0.5g, 80¢ (~265 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $8.00



TOMATOES *Lycopersicon esculentum*

9,000 seeds per oz, 0.2g pkt ~60 seeds, 0.5g pkt ~150 seeds. Tender, cannot tolerate frost. Must be started indoors Feb.-Apr. Require warm temperatures to germinate. Avoid using hot manure as it causes lush foliage with few ripe fruits. Instead use generous amounts of well-rotted compost or cow or horse manure to boost plant vigor and crushed eggshells at the bottom of each hole for calcium. Heavy phosphorus needs. Respond well to foliar sprays. Determinate (det) bush varieties may be staked, normally should not be pruned. Indeterminate (ind) climbing varieties are customarily staked and pruned. Caging without pruning delays ripening, reduces fruit size but increases production, prevents sunburn and reduces fruit cracking and rotting. Staking and pruning produces earlier larger fruits. One reason not to stake or prune (besides sheer laziness!) is that foliage will give fruits some protection against light September frosts. Large-fruited varieties with low fruit set and high sugar content are most prone to crack. To reduce cracking avoid heavy watering and large fluctuations in day/night temperatures and maintain adequate calcium levels in your soil.

More than 100 different chemical compounds account for tomato taste. Lycopene is a red carotenoid pigment found in mature tomatoes raw or cooked. Reddest, ripest tomatoes have the most lycopene. A Harvard study demonstrated that high lycopene intake sharply reduced risk of prostate cancer in men and breast cancer in women.

2003 was a tough year for tomatoes. The cool, cloudy, moist spell which began in July and persisted into August created perfect conditions for tomato diseases. Periods of excessive rainfall made even old favorite varieties watery and relatively insipid. Even in these conditions, our new addition Sweet Baby Girl, was a real star.

For all tomatoes, days to maturity are from date of transplanting.

Organically and sustainably grown seed was rinsed with a sodium hypochlorite solution to reduce risk of seed-borne disease. This treatment poses no health risks.

Open-pollinated TOMATOES

Glacier (56 days) Det. Glacier ripens around the same time as the sub-arctics with about the same size, and almost no cosmetic defects except yellow shoulders, but there the comparisons end. Glacier's rich tomato flavor relegates the insipid sub-arctics to the compost pile. It is also far superior to the highly touted Siberia tomato, to Stupice, to Early Temptation and, in fact, to every other tomato in the same class that we've tried. Originally from Sweden, 1985.

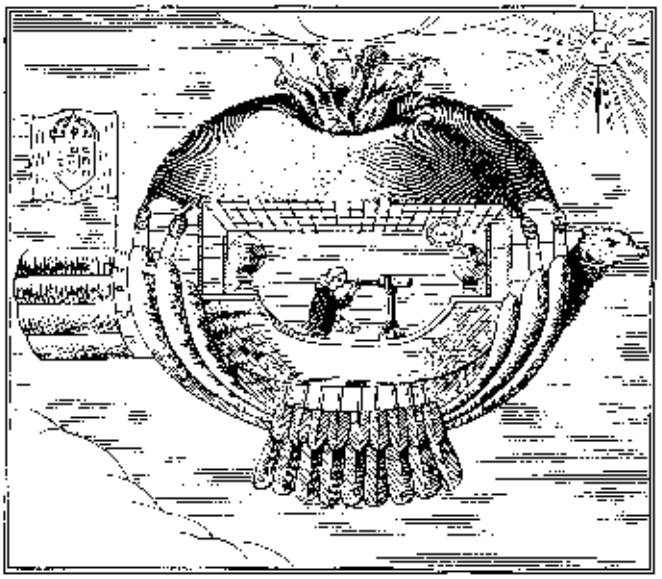
4017GL Glacier ECO Det. ① **A**=0.2g, 80¢ (~55 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.50, **E**=10g, $17.00

4018GO Glacier OG MOFGA-certified. ① **A**=0.2g, $1.00 (~65 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4024SP Oregon Spring (58 days) Det. Recommended as a "hedge" in northern climates for cold summers like 1986, 1992, 1996 and 2000. When most other varieties fail to ripen in time, Oregon Spring matures good-sized fruit in August, actually performing best during cool summers. Develops more cosmetic defects in the heat and humidity. Bears succulent almost seedless fruits of Russian parentage, up to 4" but somewhat variable. Tastes unusually good for such an early variety. Bred and developed by Dr. James R. Baggett of Oregon State University. Potato-leaf foliage. Not suitable for market growers. Resistant to V. ③ **A**=0.5g, 80¢ (~250 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $15.00

4032DG Ida Gold ECO (59 days) Det. Often these delightful orange 2-bite low-acid fruits are the first tomatoes to ripen for us. They are early and prolific even in bad tomato years. Developed specially for the North by the University of Idaho. An indifferent performer in so-so soil, but a bountiful yielder when fed compost and rotted manure. Seed grown in Maine. ① **A**=0.5g, 90¢ (~260 seeds), **B**=1g, $1.60, **C**=2g, $3.00, **D**=4g, $6.00, **E**=28g, $36.00

4038CO Cosmonaut Volkov OG (65 days) Ind. "We trialed more than 70 varieties of tomatoes," wrote Elizabeth Young of Blackburn, MO. "The favorite was Cosmonaut…." Always good and occasionally sublime (the best two tomatoes I've ever eaten were Cosmonauts from different gardens in different years), Cosmonaut delivers the true tomato taste. And it is early, usually ripening quantities of deep red slightly flattened 8-12 oz. globes at the beginning of August when tomato craving is at its peak. Even in cold summers, it will produce dependably by mid-August. What makes Cosmonaut so special? In a word, the juice: sweet rich and full-bodied. The fruits look good, too, giving Cosmonaut possibilities as a market tomato, although we've received some reports of cracking. Cosmonaut was named for the Russian explorer who fell through space. The Seed Savers Exchange deserves credit for bringing it from Russia. Our motto: Out of outer space and into your mouth! MOFGA-certified. ① **A**=0.2g, $1.00 (~65 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $20.00



4046GP Garden Peach ECO (71 days) Ind. Who needs tomatoes genetically engineered for long shelf life? For well over a century savvy gardeners have brought Peach's little fruits indoors before frost to keep for several months. 2 oz. yellow fruits blush pink when ripe and have fuzzy skins somewhat like peaches. Relatively early, prolific, soft-skinned, juicy and very sweet. Light fruity taste is not what you'd expect in a tomato. Mills exhorted their 1916 customers to delight and surprise their neighbors with these fruits, calling them so "handsome that no illustration will do them justice." Known as *Pêche Jaune* in France, introduced in America by James J.H. Gregory in 1862. Seed grown in Maine. ① **A**=0.2g, 90¢ (~250 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4048PO Pruden's Purple OG (72 days) Ind. We usually cooperate well at Fedco and tolerate each others' peculiarities *except* during tomato taste tests. When we compare tomatoes, a subject about which we are all impassioned, tolerance evaporates and remarks are made about "people who have no taste buds," who "eat yellow tomatoes" and who "put sugar in their sauce." CR thinks you don't need Pruden's if you have Brandywine. Susan and David like Brandywine fine but think Pruden's tastes better and ripens three weeks earlier in hot seasons. Opinions aside, Pruden's is early for its size, and makes a great sandwich tomato. Its vigorous potato-leaf vines yield spreading irregular pink 1 lb. fruit with very few seeds, a silken texture and rich tomato taste, nicely tart with a balanced undertone of sweetness that is neither insipid nor cloying. MOFGA-certified. ① **A**=0.5g, $1.10, **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00

4054BB Bonny Best (75 days) Ind. Bonny Best was developed in 1908 either at the Bonny Plant Farm in Union Springs, AL, or in Montgomery County, PA, depending upon which authority you believe. Stark's in 1924 identified it as a selection of Chalk's Early Jewel, describing it as "intense flaming scarlet in color…" with "flesh solid, meaty, slightly acid and of splendid table quality…one of the best main crop varieties…colors clear to the stem, does not crack, has few seeds, no green core and ripens easily; is borne in clusters of about three to five, is round, somewhat flattened, and smooth and attractive on the bush and in the crate." Always rich-tasting, this old-time canning variety is also fine for the home garden. Too prone to catfacing for market growers and too soft to stand much handling, but medium-sized fruits great for eating whole right in the garden. ⑤ **A**=0.5g, 80¢ (~115 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $6.00

4057RG Rutgers (75 day) Ind. There are two varieties called Rutgers. We sell the original strain of this famous New Jersey tomato, developed by Campbell's Soup Co. in 1928 as a cross between Marglobe and JTD. When Rutgers University "refined" the variety in 1943, they took out some of the vininess but also some of the flavor. Our taste tests confirm that the original indeterminate strain is better. Long considered an outstanding slicing, cooking and canning tomato, the medium-sized 5-8 oz. unblemished deep oblate fruits with rich red interior and pleasing texture have that great old-time flavor! Seed grown in Maine. Resistant to F1, V1, ASC and GLS. ⑤ **A**=0.2g, 80¢ (~135 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $12.00

4058GZ Green Zebra (77 days) Ind. Amy LeBlanc, who offers seedlings for 131 different varieties, called it "a wonderful surprise." A most unusual beast in the tomato menagerie, this zebra starts out green with dark green stripes, softening and blushing yellow when it ripens. It might have remained a mere curiosity, but for its scrumptious sweet rich flavor. 4-5 oz. small-medium fruits are emerald green inside. Perfect exteriors, hold up under adverse conditions and don't crack. Strikingly different. Could be a hit with your kids or on your stand. Now commonly found in upscale markets. Developed by Tom Wagner of Tater Mater Seeds in 1985. ③ **A**=0.5g, 80¢ (~165 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $15.00

4059CO Cherokee Purple OG (77 days) Ind. but with relatively short vines. No list of the best-tasting heirloom tomatoes would be complete without Cherokee Purple, an unusual variety from Tennesee, said to have originated with the Cherokee Indians. Fruits are globes to slightly oblate, averaging 10-13 oz, with dusky brownish-purple skin, dark green shoulders and brick-red flesh. Their real attraction is their rich taste, which has been described as "smoky," "sweet rich juicy winey," "delicious sweet," and "rich brandywine flavor" by some of the 28 aficionadoes who are maintaining it in the Seed Savers Exchange. Would probably make my top five for flavor. Expect some concentric cracking. Amy LeBlanc suggests the vines should not be pruned because the delicate fruits sunburn easily. CCOF- or MOFGA-certified. ①③ **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

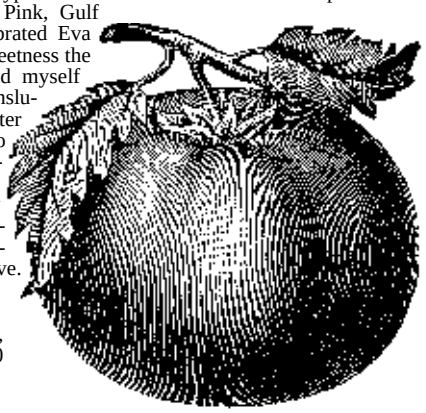
Black Krim (80 days) Ind. Maine market grower Scott Howell says Black Krim outproduced Pruden's Purple in his greenhouse. Offering Black Krim as exhibit A, he testifies that most people are waiting too long to harvest their heirloom tomatoes. Krims should be harvested when half green and still firm. They are dead ripe and perfectly delicious at that stage. If you wait till they are fully purple, you will not be able to get them from garden to table intact (to say nothing of market) and they will disintegrate like a hunk of road-kill. Krims are strikingly iridescent purple on the outside, usually with dark green-black shoulders and noticeable catfacing. Interiors are part black, too, with an unusual juicy yet meaty taste and texture. "My friend Matt says the Black Krim tomato has a smoky flavor like a good single malt scotch. I concur!!" says Andrew Knafel of Shaftsbury, VT. A wonderful example of just how diverse the tomato can be, heirloom Krim hails from Krymsk on the Black Sea in Russia. Our original seed stock came from Martha Gottlieb, the avid seed saver who for years coordinated the Exhibition Hall at Common Ground Fair.

4060BK Black Krim ② **A**=0.5g, 80¢ (~175 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $15.00

4061KO Black Krim OG MOFGA-certified. ① **A**=0.5g, $1.10, **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00

4065JU Jubilee (80 days) Ind. Also known as Golden Jubilee. Nikos discovered Jubilee at a Waldo County Extension taste test at Unity College. The best medium-sized open-pollinated orange tomato, Jubilee ripens smooth-textured sweet mild meaty 8 oz. globes. Pruning will produce larger fruits. Nikos brought me back one from the tasting and it was super, almost on a par with Goldie both for texture and flavor. Jubilee is smaller than Goldie and less prone to blemish. Won an AAS for Burpee in 1943. Resistant to ASC. ⑤ **A**=0.5g, 80¢ (~120 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $7.00

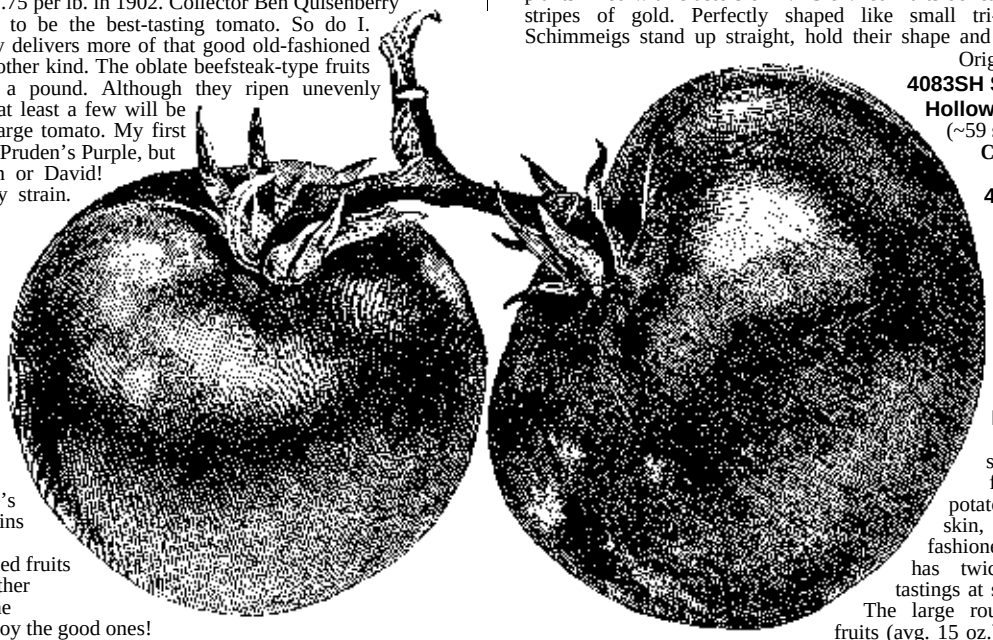
4067RO Rose de Berne OG (80 days) Ind. "The star of our tomato trials was Rose de Berne….Felt like I was a real farmer with these beauties," exulted Louie Pulver of Surfin' Veggie Farm in E. Hardwick, VT. This French emigré is a superior medium-sized pink tomato that delivers the robust flavor of the bigger types. It bested some formidable competition in our trials—including June Pink, Gulf State Market and the celebrated Eva Purple Ball. It has a rich sweetness the others can't match. I found myself popping one juicy 5 oz. translucent smooth pink fruit after another into my mouth. No slouch in the appearance department either, the unblemished globes are perfectly round, the soft skins not excessively fragile and the color and size very attractive. MOFGA-certified. ① **A**=0.2g, $1.00 (~60 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00



4069JO German Johnson OG (80 days). Now we have the real McCoy, true German Johnson, an old heirloom probably from Virginia or North Carolina. This large ind. regular-leaf plant, one of the parents of Mortgage Lifter, is known for its copious yields of pink meaty fruits, mild but with more than a touch of sweetness. They often exceed 1 lb. **BACK!** MOFGA-certified. ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4071SD Soldacki (80 days) Ind. You won't find a better sandwich tomato than Soldacki, a heavy producer of meaty tasty 14 oz. pink globes with a good mix of sweetness, tartness and real tomato flavor. Tall vigorous potato-leaf vines. Originally from Krakow, Poland, brought to Cleveland, OH, around 1900, then to Albany, NY. Prone to cracking in wet seasons. One lot is Maine grown. ① **A**=0.2g, 90¢ (~50 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4075BO Brandywine OG (82 days) Ind. with potato-leaf foliage. Meaty with just the perfect hint of tartness, pink Brandywine is the tomato most responsible for the revival of interest in heirlooms. Introduced in 1889 by Johnson & Stokes, a Philadelphia seed house, and offered by Ford Seed Co., W. Ravenna, OH, for $1.75 per lb. in 1902. Collector Ben Quisenberry considered Brandywine to be the best-tasting tomato. So do I. Brandywine consistently delivers more of that good old-fashioned tomato flavor than any other kind. The oblate beefsteak-type fruits come in right around a pound. Although they ripen unevenly throughout the season, at least a few will be quite early for such a large tomato. My first one often beats my first Pruden's Purple, but don't tell that to Susan or David! This is the Quisenberry strain. MOFGA-certified. ① **A**=0.5g, $1.10 (~190 seeds), **B**=1g, $2.00, **C**=2g, $3.60, **D**=4g, $7.00, **E**=28g, $40.00



4076YO Yellow Brandywine OG (82 days) Ind. Growing Yellow Brandywine can be maddening. When she's good, she's very very good, but when she's bad she's awful. All strains (and there are several) develop irregularly-shaped fruits in Maine's extreme weather fluctuations. Compost the weird-looking fruits; enjoy the good ones! There is a close correlation here between looks and eating quality; the good ones are remarkably smooth, with a creamy texture and rich complex tangy flavor that makes you want more. Large slightly ribbed 1 lb. fruits with an identifiable ring scar at the blossom end. Not the highest yielding. Potato-leaf foliage. In the running for best golden tomato, but by no means a shoo-in. Maintained by 19 seed savers. MOFGA-certified. ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00

4077PI Pineapple (85 days) Ind. The striped tomatoes are among my favorites. They have great names like Hillbilly, Mr. Stripey-Tigerella, Georgia Streak and Pineapple, silky smooth textures and complex, fruity tastes. They tend to be a little funky cosmetically and often grow huge, 1 lb. or more. Pineapple, Amy LeBlanc's favorite salad tomato, is certainly characteristic—and may be the best of the genre. Cut in half, it looks like the interior of a pineapple except with yellow and red marbling. It doesn't taste like a pineapple, though, nor like a typical red tomato, either. Its unique mild low-acid fruity sweetness needs a fruit name all its own. Potato-leaf foliage. The original seed stock came from Martha Gottlieb. ② **A**=0.2g, 80¢ (~150 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $20.00

Aunt Ruby's German Green (85 days) Ind. If you think green tomatoes are good only for mincemeat, your first taste of Aunt Ruby's will change your mind forever. Oblate 12-16 oz. fruits blush lightly yellow and develop an amber-pink tinge on the blossom end when ripe. Watch closely and don't allow them to get too soft before picking. The green flesh of this beefsteak is faintly marbled with pink. Flavor sweet and tart, rich and spicy. The central large tomatoes are the best. Flavor deteriorates when cold weather sets in. Created a sensation at our staff taste-testing in September 1996, where it was rated "good" or "excellent" by all who tried it, ranking behind only Brandywine. Aunt Ruby's is not just the best green tomato, it is one of the best of any color. From Ruby Arnold of Greenville, TN.

4079AR Aunt Ruby's German Green ECO ① **A**=0.2g, 80¢ (~55 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4080AO Aunt Ruby's German Green OG MOFGA-certified. ① **A**=0.2g, $1.00 (~46 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4081TO Mark Twain OG (85 days) Ind. The person who named this tomato must have read Mark Twain's 1906 story about an unsuccessful 10-hour wild turkey chase. The fowl escaped unscathed, leaving the youthful Twain famished and lost in the woods. Twain found redemption at a weedy garden full of ripe tomatoes which he ate ravenously, though he had never liked them before. Twain's namesake variety may be as irresistible as his stories. It looks and tastes as a tomato should: good-sized crack-free smooth solid red fruits with deep red interior color and full-bodied flavor. Quite soft, slighly flattened globes won't take a lot of handling. A little late but worth the wait. We got but one fruit in the cold 2000, on Sept. 5, but in warmer 2001, they started on Aug. 17 and were profuse for the next month, ranging from 8 oz. to well over 1 lb. and averaging 12 oz. Though Twain claimed to have developed an aversion to tomatoes from his one-time overdose, it is barely possible that he would have been unable to resist the tomato named for him. MOFGA-certified. ① **A**=0.2g, $1.00 (~110 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

Schimmeig Striped Hollow (85 days) Ind. Spectacular stuffing tomato with mostly hollow interiors, a beautiful gem in the fall garden. Sturdy plants filled with clusters of 2½-5 oz. red fruits delicately painted with thin stripes of gold. Perfectly shaped like small tri-lobed bell peppers, Schimmeigs stand up straight, hold their shape and melt in your mouth. Originally from Germany.

4083SH Schimmeig Striped Hollow ECO ① **A**=0.2g, 80¢ (~59 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4084HO Schimmeig Striped Hollow OG MOFGA-certified. ① **A**=0.2g, $1.00 (~59 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4087TM Tiffen Mennonite (86 days) Ind. Tiffen has many similarities to the more famous Brandywine—potato-leaf foliage, pink skin, and rich, rich old-fashioned tomato taste which has twice drawn raves at tastings at staff annual meetings. The large rough oblate beefsteak fruits (avg. 15 oz.) are a tad bigger and later than Brandywine. For a superb sandwich tomato or a fresh garden snack, heirloom Tiffen is hard to top! ③ **A**=0.5g, 80¢ (~150 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $15.00

Lillian's Yellow Heirloom (88 days) Ind. Forget about those pallid early light yellow tomatoes! Lillian's may be a little late, not coming on until September, but it is worth waiting for. Its superb creamy consistency, meaty flesh, and complex of rich deep flavors make it the best-tasting clear tomato. A perfect balance of engaging sweetness and intriguing citrus quality in every 1 lb. fruit. These won't win any beauty contests, being bilobed, oblate and a bit lopsided, but will win tasting contests. One bite into one of these beefsteaks and you'll forget about its superficial shortcomings. Lillian's rarely shows up in seed catalogs because it is a stingy seed producer. For that reason the seed is dear, but worth every penny. Carolyn Male rates it among her top 100, we rate it in the top 10. Fruit in clusters of 2 or 3. From Lillian Bruce, Manchester, TN. Seed grown in Maine.

4090LY Lillian's Yellow Heirloom ECO ① **A**=0.2g, $1.20 (~60 seeds)

4091LO Lillian's Yellow Heirloom OG MOFGA-certified. ① **A**=0.2g, $1.40, **B**=0.4g, $2.40, **C**=1g, $4.00, **D**=2g, $7.00, **E**=10g, $34.00

4093GO Goldie OG (90 days) Ind. Pennsylvania market grower Paul Hauser, who knows a thing or two about growing tomatoes (he sells 10,000 seedlings each spring), says the yields from Goldie are "stupendous. I just never saw so many tomatoes." They are "semi-solid, didn't crack much, yet had that great heirloom taste." How, he wonders, could Carolyn Male possibly have left them out of her top 100? Goldie impressed in our trials by delivering its rich flavor with an extraordinary velvety texture. Deep orange beefsteak fruits with a little red streaking on the bottom average 16-20 oz. Heirloom dates from the 1870s. Will catface under cold and/or excessively wet conditions. Several people who grew our Heirloom Mix reported that Goldie was their favorite. MOFGA-certified. ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $4.00, **D**=2g, $7.00. *Not available in larger sizes.*

4097RO Ruby Gold OG (90 days) Ind. *We regret crop failure; not available in 2004.*

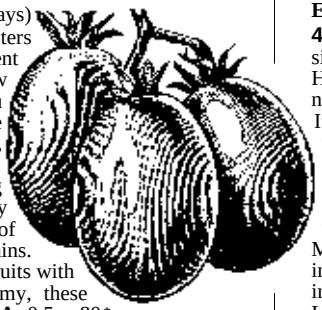
Open-pollinated CHERRY TOMATOES

See also #6429

4101WS Whippersnapper (52 days) Det. Whippersnapper is the welcome bearer of pinkish tart fruits that come earlier than any other cherries. While a treat unto itself, Whippersnapper also whets the appetite for the later redder sweeter cherry tomatoes. Not disease resistant, should be followed by a succession variety more vigorous. Maine seed. ① **A**=0.2g, 90¢ (~125 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4107CV Ciudad Victoria ECO (64 days) *L. e.* var. *pimpinellifolium* Ind. Frankly, until I met Ciudad, the rage for currant tomatoes left me cold. All the ones I tried cracked at the drop of a dewdrop! Their tiny bland fruits just weren't worth the trouble. Ciudad is different, with larger fruits than other currants. Ciudads bolster the fruity wildness of the currants with some solid tomato taste, sweet with acidity, seedy, rich, good. The fruits do not crack *ever*, not on the vine, not after picking, not even after a heavy rain. Long rambling 3-5' vines bear red-orange 1/3-1/2" berrylike fruit in clusters of 9-13. Ciudad originated in northern Mexico a long time ago. Weaver considers it the most common type of cherry tomato grown in the United States before 1865. Grown in Maine. ① **A**=0.2g, 90¢ (~175 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $20.00

4109GD Gardener's Delight Cherry (68 days) Ind. Gardener's Delight often ripens just when Whippersnapper is through. Its larger size, deep red color and rich sweet flavor also contrast with Whippersnapper. The large plants need staking and will bear till frost. The fruits are so wonderful that I can overlook their annoying tendency to crack. ③ **A**=0.5g, 80¢ (~250 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $15.00



4116PB Principe Borghese Cherry (75 days) Vigorous det. Bears small fruits in prolific clusters over a long season. An Italian variety of excellent flavor used for sun-dried tomatoes as it has few seeds and little juice. In our humid climate, you will need a solar dryer or a 100° oven to dry the fruits successfully. Also makes a tasty sauce, although you'll need a lot of the little tomatoes! CSA grower Jill Agnew lauds them for holding their perfect shape so well without cracking. Amy LeBlanc, investigating eight different sources of this variety, found at least three different strains. Two of the eight sources, including Fedco, had fruits with a nipple at the blossom end. According to Amy, these pointy fruits taste better than the oval fruits. ② **A**=0.5g, 80¢ (~330 seeds), **B**=1g, $1.50, **C**=2g, $2.50, **D**=4g, $4.00, **E**=28g, $25.00

4119PC Peacevine Cherry (78 days) Rampant ind. Selected by Peace Seeds from Sweet 100 cherry tomato, and almost identical in fruit size and growth habit. Bears gazillions of sweet clusters each with 8 or so 1" fruits. Has the currant tomato in its ancestry. Very high in vitamin C. Maine-grown. ① **A**=0.2g, 90¢ (~130 seeds), **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4120FP Fargo Yellow Pear ECO (82 days) Ind. It sure is hard for our tomato trialers to agree on anything, but all gave high ratings to Fargo. One called it "the first pear tomato that tastes like a tomato." Each plant produces about three dozen of the sweet tasty 1 oz. fruits. About twice the size of regular pear tomatoes, the meaty morsels are crack resistant. Replaces Yellow Plum which is #**6429** in the discounted specials. ① **NEW!** **A**=0.2g, 90¢, **B**=0.4g, $1.60, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

Open-pollinated PASTE TOMATOES

4125HO Heinz 2653 OG (68 days) An amazingly early red plum type which often ripens all its 2 1/2-3 oz. fruits before frost. Firm fruits for cooking, on compact plants. Heavy yields early. MOFGA-certified. ① **A**=0.2g, $1.00 (~55 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

Grandma Mary's (68 days) Ind. Introduced by Fedco in 1992. Grandma's meaty 6-10 oz. fruits are very early for their size. It produced fruit even in the cold summers of 1992, 1996 and 2000. Jeanne Griffin selected seed from this heirloom for 6 years for earliness and fruit size.

4130GM Grandma Mary's ECO Grown in Maine. ① **A**=0.2g, 80¢ (~78 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4131GO Grandma Mary's OG MOFGA-certified. ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4135LO Bellstar OG (74 days) Det. Bred at Smithfield Experiment Farm in Ontario and introduced in 1981. Red 4 oz. round paste tomatoes are much larger than most others of this type. Delicious flavor is also good in salads. Ripening is spread over a long season. MOFGA-certified. ① **A**=0.2g, $1.00 (~95 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $20.00

4137NO Orange Banana OG (85 days) Ind. I never would have believed that the best tomato sauce comes from an orange tomato. But the proof is in the eating and Orange Banana was the clear winner of our annual autumn paste taste at the Shipmans. No wonder Banana has become a staple of David's famous tomato sauces. Its amazing sprightly sweet flavor, reminiscent of Sungold but with more depth and diverse tones, makes an ambrosial sauce by itself and adds a vivid fruity complexity to any sauce with other tomato varieties. Attractive cylindrical orange fruits 3-4" long average 4-5 oz. Yields and plant vigor are adequate but not outstanding. Flavor would justify growing Orange Banana even if plants were feeble. MOFGA-certified. ① **A**=0.5g, $1.20 (~200 seeds), **B**=1g, $2.00, **C**=2g, $4.00, **D**=4g, $7.00, **E**=28g, $42.00

Amish Paste (85 days) Ind. 26 seed savers can't be wrong! That's how many listed Amish Paste in the 2003 Seed Savers Yearbook, making it one of the most popular items in the Exchange. Their comments tell it all, "the ultimate sauce type," "wonderful flavor and production," "my favorite paste tomato for the past eight years," "large, meaty, heart-shaped fruit," "prolific, good in drought and wet weather," "great for canning and sauce," "good enough to inspire me to finally try to re-offer some seeds via SSE!" Strong producer of oxheart fruits up to 8 oz. In our sauce tests had a good creamy texture and nice balance of acids and sweetness, always ranking near the top in comparisons. Thick bright-red sweet flesh. Larger and better than Roma. Wisconsin heirloom.

4139AP Amish Paste ECO ① **A**=0.2g, 80¢ (~70 seeds), **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00

4140AO Amish Paste OG NOFA VT-certified or CCOF-certified. ①③ **A**=0.2g, $1.00 (~70 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $18.00

4141HO Hog Heart OG (86 days) Ind. Hog Heart has won many fans since Susan Eastman and Ed Lacy of Gray, ME, brought it to the Exhibition Hall at the 1988 Common Ground Fair. They got it from a woman in northern Massachusetts who got it from a man who had emigrated from Italy, probably between 1910 and 1920. So-named because of its tendency to produce double fruits, Hog Heart is a meaty 6-8 oz. (some larger) paste tomato shaped like a banana pepper, noted for its sparse seed cavity, good solids and excellent flavor fresh, canned or frozen. Although some fruits catface, the folks at Snake Root Farm have had good success selling it at the Orono and Pittsfield farmers markets and now produce the seed for us. Martha Gottlieb was instrumental in distributing seed samples and provoking interest all around the state. It is late for extreme northern areas. A Fedco introduction. "For my money, the best paste tomato going," says Amy LeBlanc. MOFGA-certified ① **A**=0.2g, $1.00, **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.00, **E**=10g, $19.00

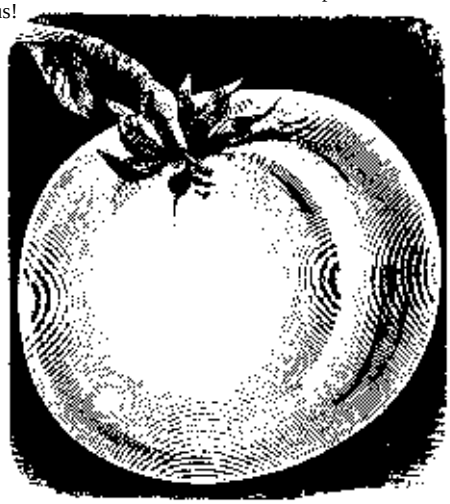
Blue Beech (90 days) Ind. This superb large elongated paste tomato won our tomato sauce taste test in 1997, besting several well-known varieties. We received seed from Annette Smith of Blue Beech Farm in Danby, VT, and have named the variety in honor of her farm. Our Maine seed grower complains that it is not seedy (good for sauce, not good for seed production) and she has given it a similar but uncomplimentary name! Smith got the tomato from her neighbor's niece's uncle who brought it to Vermont from Italy during World War II. This Roma type has been acclimated in Vermont for the last 50 years so it is much more adaptable to cold climates than Roma. It makes a richly textured sweet sauce that's just brimming with flavor. Fruits, averaging 6-8 oz, often have green shoulders. Needs long season to ripen. A Fedco introduction.

4145BB Blue Beech ECO Seed grown in Maine. ① **A**=0.2g, $1.00 (~65 seeds), **B**=0.4g, $1.80, **C**=1g, $3.00, **D**=2g, $5.50, **E**=10g, $24.00

4146BO Blue Beech OG MOFGA-certified ① **A**=0.2g, $1.20, **B**=0.4g, $2.20, **C**=1g, $3.50, **D**=2g, $6.00, **E**=10g, $28.00

TOMATO MIX

4149HM Heirloom Tomato Mix You'd love to be adventurous and try them all but you haven't space for that many tomato plants? Or can't make up your mind which ones to select? Here's the solution: Skip the fuss and leave the choosing to us! We'll mix together a bunch of varieties in one packet. You'll get different colors, sizes, shapes and flavors. All you'll need is an open mind, a good sense of observation, unjaded taste buds and acute deductive faculties. Then you can figure out which ones you like and order them by name next year. ① **A**=0.2g, 80¢, **B**=0.4g, $1.50, **C**=1g, $2.50, **D**=2g, $4.00, **E**=10g, $15.00



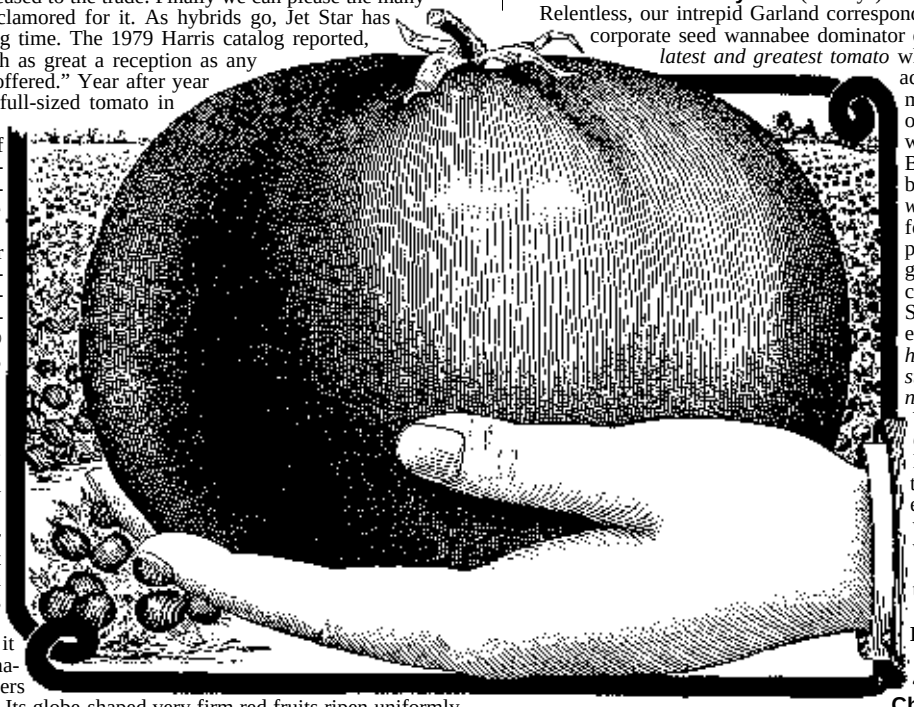
Hybrid TOMATOES

4205EG Early Girl (60 days) Ind. This girl is well-loved by commercial growers who need heavy yields of good-looking slicing tomatoes early in the season when the market commands high prices. Early Girl delivers good flavor for such an early tomato—sweet, meaty with a hint of tartness. The slightly flattened bright crimson globes average 4-6 oz. with firm texture, blemish-resistant skin and a long production period. ② **A**=0.2g, $1.30 (~85 seeds), **B**=0.4g, $2.20, **C**=1g, $5.00, **D**=2g, $8.00, **E**=4g, $15.00

4210EC Early Cascade (66 days) Ind. Always very impressive. Donna Dyrek harvested 20 lb. of Early Cascades off a single plant. Begins producing 4 oz. fruits very early, and keeps on till frost and beyond. Has delicious taste despite exceedingly firm thick skin. Holds quality on vine a long time. A favorite market variety. Needs staking. Disease resistance includes V1, ASC and S. ⑤ **A**=0.2g, $1.30 (~100 seeds), **B**=0.4g, $2.20, **C**=1g, $5.00, **D**=2g, $9.00, **E**=4g, $16.00

4227FL First Lady II (70 days) Ind. A First Lady with flavor good enough for the Senate. Boasts good-tasting round 4-5 oz. fruits bred for the home garden. They color early and keep coming all season. Excellent disease resistance to V, F1, ASC, S and N. ⑤ **A**=0.2g, $1.50 (~75 seeds), **B**=0.4g, $2.50, **C**=1g, $6.00, **D**=2g, $10.00, **E**=4g, $18.00

4233JS Jet Star (72 days) Compact Ind. Jet Star, long a Harris/Moran exclusive has been released to the trade. Finally we can please the many customers who have clamored for it. As hybrids go, Jet Star has been around for a long time. The 1979 Harris catalog reported, "Our Jet Star met with as great a reception as any introduction we ever offered." Year after year it was the best early full-sized tomato in our trials, ripening prolific quantities of cosmetically perfect 7-8 oz. globes with outstanding flavor. The smooth firm fruits almost never scar or crack. They have excellent interior and exterior coloration. Resistant to F1 and V. ⑤ **A**=0.2g, $1.50 (~65 seeds), **B**=0.4g, $2.50, **C**=1g, $6.00, **D**=2g, $11.00, **E**=4g, $20.00



4238BU Buffalo (72 days) F-1 hybrid. Ind. We don't know why this Dutch beefsteak tomato was named for one of the snowiest places on Earth (can you grow tomatoes outdoors in Buffalo?), but we do know that it is *the* greenhouse tomato, the one our growers have been demanding. Its globe-shaped very firm red fruits ripen uniformly. Tomatoes average 8-9 oz. with some variability. Vigorous tall vines, loaded with disease resistance, make a nice package. Resistant to TMV, leafmold A-E, V, F1 and F2. Adaptable for greenhouse, poly-tunnel culture everywhere—even in Buffalo! ② **A**=.05g, $2.00 (~18 seeds), **B**=0.1g, $4.00, **C**=0.4g, $15.00, **D**=1.2g, $45.00, **E**=3.6g, $130.00

4260BF Big Beef (75 days) Ind. Many beefsteak varieties are ugly, oversized, mealy balls of fluff. But Big Beef answers my beef about beefsteaks because it looks great and actually tastes like a tomato. Moreover, it is a real workhorse producer of 10 oz. spotless fruits which start ripening early and keep coming till frost. This large vigorous plant will please both market growers and home gardeners and it certainly pleased the judges who made it a 1994 AAS. Big Beef's bred-in resistance to V, F1, F2, ASC, S, N and TMV helps its sustained performance. ⑤ **A**=0.2g, $1.50 (~90 seeds), **B**=0.4g, $2.50, **C**=1g, $6.00, **D**=2g, $11.00, **E**=4g, $20.00

4267CB Celebrity (78 days) Det. Impressive seedling vigor and flavorful firm 7 oz. fruits merited a 1983 AAS award. Best-looking tomato seedlings I've ever raised. A favorite of both home gardeners and commercial growers. Wide disease resistance includes V1, F1 and 2, ASC, N, S, and TMV. From Seminis. ⑤ **A**=0.2g, $1.30 (~45 seeds), **B**=0.4g, $2.50, **C**=1g, $6.00, **D**=2g, $11.00, **E**=4g, $20.00

4275GB Golden Boy (88 days) Ind. Golden Boy has convinced many people that a tomato doesn't have to be red to be good. Not just good, Golden Boy was at or near the top of each of our tomato taste tests until we discovered the heirlooms. The deep color and rich flavor of its 8-10 oz. golden-yellow fruits makes most lemon-yellow tomatoes bland by comparison. Because GB's fruits usually develop blemishes if allowed to fully vine-ripen, we recommend picking them slightly underripe and allowing them to finish in the kitchen. Why hail a Taxi when you can get so much more mileage out of a Golden Boy? Tolerant to ASC. ⑤ **A**=0.2g, $1.20 (~60 seeds), **B**=0.4g, $2.00, **C**=1g, $5.00, **D**=2g, $8.00, **E**=4g, $15.00

Hybrid CHERRY TOMATOES

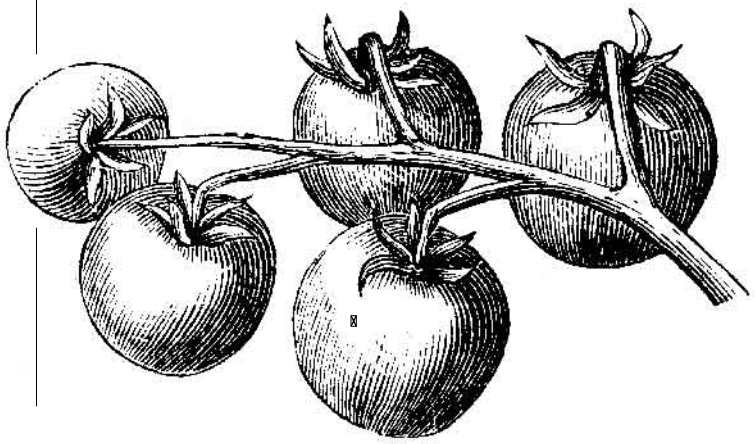
4282SG Sun Gold (57 days) Ind. To quote one of our customers, "Without these little babies, there's *no summer*." Amy LeBlanc, who offers seedlings for 15 cherries, calls it "the OFFICIAL sweetest and best cherry tomato." I call it the best cherry tomato ever developed, a perfect combination of deep sweetness with a hint of acid tartness. It is so good that for some years it took away most of our incentive to do cherry tomato trials because all others paled in comparison. Its small fruits, borne in prolific clusters, ripen very early to a rich apricot color. Splits readily after rain. Resists F1, TMV. ⑤ **A**=0.1g, $2.20 (~65 seeds), **B**=0.2g, $3.50, **C**=1g, $13.00, **D**=2g, $25.00, **E**=4g, $48.00

4284SS Sunsugar (62 days) Ind. Several years ago when we had a crop failure for Sun Gold and Sunsugar stepped into the breach, several customers told us they couldn't tell any difference. Sunsugar has the same tangerine color as Sun Gold, and almost the same sweetness, with a brix reading of 10. It is not quite as early but close. Although retaining a very thin skin, it greatly surpasses Sun Gold in crack resistance, making it a better bet for markets, and extending its season in adverse conditions. It is a regular beta-carotene factory, too. Resistant to F and TMV. Vigorous indeterminate; needs staking and tying. ⑤ **A**=0.2g, $2.00 (~130 seeds), **B**=0.4g, $5.00, **C**=1g, $11.00, **D**=2g, $20.00, **E**=4g, $36.00

4286SB Sweet Baby Girl (65 days) Compact ind. Guest description by Relentless, our intrepid Garland correspondent: "Seems every season some corporate seed wannabee dominator offers to the unwary yet another *latest and greatest tomato* which usually lasts as long as the advertising budget for it…not much longer than a Maine outdoor growing season. So, when Seminis introduced Sweet Baby Girl last season, my initial below-the-belt reaction was '*Here we go again.*' I was still looking for that great red cherry to compete with and complement Sungold and join its rather exclusive club. For me, though really good, Super Sweet 100 remains an invited guest. So I thought, '*What the hell? If it's just another huckster's loser, a compost pile is nearby offering reincarnation.*' Verdict? SBG now joins the *Garland Snooty Tomato Club.* It's very early, almost as productive as Sungold, doesn't split as easily, not quite as sweet but a wondrous and dandy mix of flavorful complexity. I hate to admit it's a winner. You gotta try this baby!" Fruits average 18-25 grams. ⑤ **NEW! A**=0.2g, $1.50, **B**=0.4g, $3.00, **C**=1g, $7.00, **D**=2g, $14.00, **E**=4g, $25.00

4288SC Sweet Chelsea Cherry (68 days) Ind. Sweeter and heavier-yielding than our old favorite Sweet Cherry. Larger than most other cherries, the round red fruits are practically impeccable in appearance and luscious in flavor. Chelsea starts producing relatively early and continues throughout the season. Wide disease resistance, including TMV and F. ④ **A**=0.2g, $1.30 (~75 seeds), **B**=0.4g, $2.20, **C**=1g, $5.00, **D**=2g, $8.00, **E**=4g, $15.00

4296SW Super Sweet 100 Cherry (78 days) Ind. Like Sweet 100, only with more disease resistance. Very popular hybrid cherry tomato ripens clusters of 1" round sweet fruits. Should be staked. Will split in rainy conditions. Resistant to V and F1. ⑤ **A**=0.2g, $1.50 (~130 seeds), **B**=0.4g, $3.00, **C**=1g, $7.00, **D**=2g, $14.00, **E**=4g, $26.00



VEGETABLE PLANTING GUIDE

Vegetable	Catalog # range	sds/oz	sds/100'	Pkt plants	distance apart	thin to	row spacing	seed depth	min soil temp °F	ideal soil temp	hardiness	planting date
Amaranth	3000-12	25000	1/16 oz	100'	3"	6"	18"	1/8"	60	70-85	T	June 1
Artichoke	3608	180	T	10 pl	3'	No	2'	1/2"	60	65-85	MH	tp late
Arugula	3020-29	13000	3g	60'	1"	4"	18"	1/4"	50	65-85	MH	May 1
Basil	4410-99,4730	18000	5g	10-80'	1/2"	4"	18"	1/4"	65	70-85	VT	June 1
Bean, Bush, Dry	200-79,300-85	80	8 oz	25'	2"	3"	2-3'	1"	60	70-85	T	late May
Bean, Fava	299	17	1#	12'	4-6"	No	2-3'	1"	50	60-80	H	April
Bean, Pole	280-92	65	4 oz	10 pl/oz	6/pole	3/pole	3-4'	1"	60	70-85	T	late May
Bean, Soy	480-99	110	4 oz	14'	3"	No	3'	1"	60	70-90	T	June 1
Beet	2100-99	2200	1/2 oz	20'	1"	2-4"	12-18"	1/2"	50	65-85	H	Apr-July
Broccoli	3310-16,3400-75	7000	5g	.5g=10'	1"	24-30"	30"	1/4"	50	65-85	MH	tp May/June
Brussels Sprouts	3317-19,3480	5000	5g	.5g=10'	1"	24-30"	24-30"	1/4"	50	65-85	H	tp May/June
Cabbage	3320-39,3500-40	7500	5g	.5g=10'	1"	24-30"	24-30"	1/4"	50	65-85	MH	tp May/June
Carrot	2000-99	18000	10g	1/8oz=35'	1/4"-1/2"	1"	16-24"	1/2"	50	65-85	H	Apr-July
Cauliflower	3348,3540-79	8000	4g	.5g=12'	1"	30"	30-36"	1/4"	55	65-85	MH	tp May/June
Celery/Celeriac	3610-49	75000	T	500	8"	No	2-3'	1/8"	50	55-70	T	tp June 1
Chard	3030-42	2000	1/2 oz	12'	1"	3"	18-24"	1/2"	50	65-85	H	ASAP
Chicory	3046-48	1800	T	300 pl	1'	No	2'	1/8"	50	60-85	H	tp late June
Chinese Cabbage	3276	9500	1/4 oz	25'	1/2"	12-18"	24-30"	1/4"	50	70-95	MH	late May
Corn	500-699,5930-49	155	4 oz	50'	2-3"	1'	3'	1"	60	70-95	T	late May
Cress	3050-56, 4695	9000	2.5g	70'	1"	4"	18"	1/4"	50	65-85	MH	May 1
Cucumber	1200-1399	1100	1/2 oz	11'	2"	4"	4'	1/2"	60	75-95	VT	June 1
Eggplant	3650-99	6000	T	40 pl	20-30"	No	30-36"	1/4"	68	75-85	VT	tp early Jun
Endive	3060-99	18000	5g	40'	1"	8"	18-24"	1/4"	50	60-85	H	Apr-July
Gourds, large	1960-99	175	T	20 pl	6/hill	2-3/hill	6'	1/2"	60	70-90	T	tp early Jun
Gourds, small	1900-59	700	1/6 oz	30 hills	6/hill	3/hill	4-6'	1/2"	60	70-90	T	late May
Kale	3350-89,3582-89	7500	5g	40'	1"	12"	2'	1/4"	50	65-85	VH	ASAP-July
Kohlrabi	3390-99,3594	8500	4g	50'	1"	24"	24"	1/4"	50	65-85	MH	tp May/June
Leek	2400-29	10000	T	600 pl	8"	No	2'	1/2"	50	60-80	MH	tp May 1
Lettuce	2700-2999	25000	4g	1g=25'	1/4"	1'	12-18"	1/8"	40	50-75	H	ASAP-Aug
Mâche	3100-19	18000	1/4 oz	30'	1/2"	2"	18"	1/4"	48	50-80	VH	ASAP-Aug
Melon	1000-99	1200	T	5 hills	3/pot	2/hill	5'	1/2"	68	80-95	VT	tp early Jun
Mustard	2983,3138,3200-59	15600	1/8 oz	45'	1"	4-6"	2'	1/4"	50	65-85	MH	Apr-Aug
Okra	3696	420	T	30 pl	12"	No	2-3'	1/4"	65	70-95	VT	tp early Jun
Onion	2440-99	6500	T	400 pl	4"	No	12-18"	1/2"	50	60-85	MH	tp May 1
Pac Choi	3260-75	12500	1/4 oz	30'	1/2"	6-12"	2'	1/4"	50	70-95	MH	May
Parsley	2301,3155-79	18000	1/4 oz	25'	1/4"	1"	12-18"	1/4"	50	50-85	VH	Apr-Aug
Parsnip	2305-10	5000	1/2 oz	25'	1/2"	2-3"	12-18"	1/2"	52	60-77	VH	Apr-July
Pea/snow, snap	700-899	110	8 oz	30'	1 1/2"	No	3-5'	3/4"	48	65-85	plants H	ASAP
Pea/snow, snap for	fall crop	110	8 oz	30'	1 1/2"	No	3-5'	3/4"		blossoms,pods T		July
Pepper	3700-3999	4500	T	10-50 pl	12-18"	No	2-3'	1/4"	68	75-85	VT	tp early Jun
Pumpkin	1700-1899	210	1/2 oz	4-8 hills	6/hill	3/hill	6'	1"	60	70-90	T	late May
Radicchio	3186-89	20000	1/2 oz	30'	1"	8-10"	18"	1/8"	50	60-85	H	late June
Radish	2200-99	2500	1 oz	15'	1/2"	2"	18"	1/2"	50	60-85	H	Apr-Aug
Rutabaga/Turnip	2350-99	9000	1/4 oz	40'	1/2"	3-4"	18"	1/4"	50	60-95	H	Apr-July
Scallion	2439-40	9200	T	400pl	4"	No	12-18"	1/2"	50	65-85	MH	tp May 1
Scorzonera	2322	2000	.6 oz	20'	1"	2"	18"	1/2"	50	65-85	H	Apr-Jun
Skirret	2327	17000	2g	10'	1"	1'	3'	1/2"	50	65-85	VH	May
Spinach	2500-99	2600	1/2 oz	50'	1"	2"	12-18"	1/2"	42	60-80	VH	ASAP
Spinach, fall crop	2500-99	2600	1/2 oz	50'	1"	2"	12-18"	1/2"	42	60-80	VH	Aug
Squash, patty pan	1580-99	300	.6 oz	5 hills	6/hill	3/hill	4'	1"	60	70-90	T	late May
Squash, winter	1600-1699	120-480	1/2-1 oz	2-15 hills	6/hill	3/hill	4-6'	1"	60	70-90	T	late May
Squash, summer	1400-1599	375	1/2 oz	6 hills	6/hill	3/hill	4'	1"	60	70-90	T	late May
Tomato	4000-4299	9000	T	50-125pl	3'	No	3'	1/4"	60	68-80	T	tp June 1-10
Watermelon	950-99,1100-99	700	T	4 hills	3/pot	2/hill	5'	1/2"	68	80-95	VT	tp early Jun
Zucchini	1400-79	180	1 oz	3-4 hills	6/hill	3/hill	4'	1"	60	70-90	T	late May

For information on herbs & flowers see charts on pages 61-3.

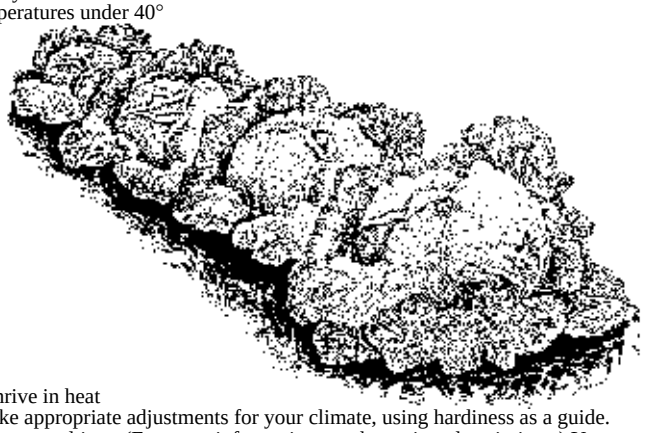
Abbreviations Pkt plants=how many row feet our smallest packet will plant T=transplanted only, in our climate.
tp=transplant pl=plants g=grams, 28.4g=1oz. No=not necessary to thin

Hardiness rating VT=very tender: will not survive frost, can be damaged by temperatures under 40°
T=tender: will not survive frost
MH=moderately hardy: survives light frosts
H=hardy: survives frost generally to the low twenties
VH=very hardy: will winter over if protected

Seed Storage

Keep your seed alive by storing it properly! Moisture, humidity and high temperatures are the worst enemies of seed viability. Find a storage area where the sum of relative humidity and temperature is below 100 or place your packets in a glass jar in your freezer or refrigerator. Never keep seed packets in a sunny location, and do not leave them in your greenhouse even for a few hours!

Most seed stored properly will last for several years. A few seeds, such as onions, parsnips and parsley, are short-lived. If in doubt try germinating a sample of your old seed in moist paper towels.



Approximate planting date: ASAP=as soon as ground can be worked, does not thrive in heat
Approximate planting dates are for *our* Central Maine climate. Please make appropriate adjustments for your climate, using hardiness as a guide.

Notes: Seed counts are provided as a *guide*, not a *guarantee*. They vary from cultivar to cultivar. (For more information see the variety descriptions.) You can stretch your seeds further with careful planting. We get a lot more row feet out of a packet of beets serenely planted on a breezy sunny bug-free afternoon than out of the same packet hastily sown in a humid mosquito-infested twilight! Planting rates will vary if intensive methods such as beds are used. Minimum soil temperatures are the lowest we can recommend if you want a good stand. Planting under slightly colder conditions is possible but germination will be slow and

Cultural Information and Planting Instructions for Herbs

Name	item#	Botanical name	ABP	height	uses	part	sow	temp	days	notes	cover	sun
Anise	4406	*Pimpinella anisum*	A	1-3'	S B M	S	DS	M	7-28		L	PF
Anise Hyssop	4708	*Agastache foeniculum*	P Z4	2-3'	B M	L F	DW TP	W	7-14	Lt	P	FP
Arnica	4711	*A. chamissonis*	P Z4	20"	M O	F	TP	C		St		F
Ashwagandha	4713	*Withania somnifera*	TP/A	2-3'	M	R	TP	M	7-21	Lt	N	FP
Astragalus	4714	*A. membranaceus*	P Z4	18-48"	M	R	DS TP	M	7-28	Sc Sk	L	F
Basil	4414ff	*Ocimum basilicum*	TA	8-24"	S E M	L	TP DW	W	4-10	W	R	F
Basil, Sacred	4730	*Ocimum sanctum*	TA	18-24"	S M	L	TP DW	W	4-10		R	F
Bergamot	4734	*Monarda fistulosa*	P Z3	3-4'	B M O	L	DS DF	M	7-14	Lt	N	FP
Blessed Thistle	4738	*Cnicus benedictus*	A	1-2'	M	F L	TP DS	M	7-21	St	L	F
Boneset	4742	*Eupatorium perfoliatum*	P Z3-4	3-5'	M	L	DS DF	M	14-21	St Lt	N	PF
Borage	4747ff	*Borago officinalis*	SSA	2-3'	E M O	F L	DS DF	C	7-14		P	FP
Calendula	5087	*Calendula officinalis*	SSA	18-24"	M O	F	DS	M	4-14		R	FP
Caraway	4507	*Carum carvi*	SSB	2'	S E	S L	DS	C				F
Catnip	4756	*Nepeta cataria*	P Z3	1-2'	M B	L	DS DF	M	7-10	Lt	N	F
Chamomile	4766	*Matricaria recutita*	SSA	8-18"	B M	F	DS	M	10-14	Lt	N	F
Chervil	3044ff	*Anthriscus cerefolium*	B	12-18"	S	L	DS	W	7-14	Lt	L	P(F)
Chives	4512	*Allium schoenoprasum*	P Z3	1-2'	S M E	L F	DS	C	7-14		L	FP
Cilantro	4518ff	*Coriandrum sativum*	A	1-2'	S E	L S	DS	C	7-14		R	F(P)
Coneflower	4774ff	*Echinacea spp.*	P Z3	1-3'	M O	R F	TP DW	W	14-21	St Lt	L	F
Dill	4530ff	*Anthenum graveolens*	SSA	2-5'	S M O	S L	DS	W	7-21		R	F
Elecampane	4784	*Inula helenium*	P Z3	5-8'	M O	R	TP	M	7-10	Lt	N	FP
Fennel	4556ff	*Foeniculum vulgare*	TP/A	1-3'	S M E	L S	DS	M	7-14		R	F
Feverfew	4787	*Tanacetum parthenium*	P Z4	18-30"	M O	L	TP DS	M	7-14	Lt	N	FP
Garlic Chives	4577	*Allium tuberosum*	P Z4	12-18"	S E	L F	DS	C	7-14		L	FP
Horehound	4796	*Marrubium vulgare*	P Z3-4	20-24"	M	L	TP DS	M	10-21		P	F
Hyssop	4806	*Hyssopus officinalis*	P Z3-4	12-18"	M O	L F	TP DF	C	7-21		R	FP
Joe Pye Weed	6266	*Eupatorium purpureum*	P Z3-4	5-9'	M O	R	DS DF	M	14-21	St Lt	N	P
Lady's Mantle	4829	*Alchemilla mollis*	P Z3	12-18"	M O	L	TP	M	21-30	St Lt	N	FP
Lavender	4836ff	*Lavandula angustifolia*	P Z5	2-3'	M O	F L	TP DF	W	14-28	St Lt	P	F
Lemon Balm	4846	*Melissa officinalis*	P Z4	1-2'	B M S	L	TP DS	M	7-14	Lt	N	FP
Lemon Mint	4854	*Monarda citriodora*	SSA	2-3'	B M	L	DS	M	7-21		R	P(F)
Licorice	4860	*Glycyrrhiza glabra*	P Z8	2-4'	B M	R	TP	M	10-14	Sc Sk	L	FP
Lovage	4592	*Levisticum officinale*	P Z4	3-6'	S M	L	DS DF	M	10-21		R	F(P)
Marjoram	4616	*Origanum majorana*	TP/A	1-2'	S	L	TP	M	7-21	W	N	F
Marshmallow	4866	*Althaea officinalis*	P Z4	4-6'	M O	R L	DS DF	C	14-21	St	L	FP
Mexican Tea	4624	*Chenopodium botrys*	SSA	1-3'	S M	L	DS	C	7-14		N	F
Milk Thistle	4872	*Silybum marianum*	SSA	3-5'	M E	S F L	DS DF	M	7-14	Lt	L	F
Mint	4632	*Mentha spicata*	P Z4	12-18"	S B M	L	TP DS	M	7-14	Lt	N	FP
Motherwort	4884	*Leonurus cardiaca*	P Z3	2-4'	M	L F	DS DF	M	7-21	Lt	L	F
Mullein	4900	*Verbascum thapsus*	B Z3	3-6'	M O	L F	DS TP	M	14-21	St Lt	R	F
Nettle	4908	*Urtica dioica*	P Z2	3-6'	E M	L	DS	M	10-14	Lt	R	FP
Oregano	4648	*Origanum heracleoticum*	P Z4	6-12"	S M	L	TP	M	7-21	Lt	N	F
Parsley	3158ff	*Petroselinum crispum*	B Z3	8-12"	S E	L	DS DF	M	14-60	Sk	R	FP
Pennyroyal	4924	*Mentha pulegium*	P Z5-6	8-12"	M O	L	TP	C	10-14		N	FP
Pleurisy Root	6034	*Asclepias tuberosa*	P Z3	18-30"	M O	R	DW	M	14-28	St	L	F
Rosemary	4657	*Rosmarinus officinalis*	TP Z7	3-5'	S M O	L	TP	M	10-42	St Lt	P	F
Rue	4936	*Ruta graveolens*	P Z3-4	2-3'	M O	L	DS TP	M	10-21		R	FP
Sage	4664ff	*Salvia officinalis*	P Z4	2-3'	S B M	L	TP DS	W	10-21	Lt	P	F
St Johnswort	4979	*Hypericum perforatum*	SP Z3	1-3'	M	F L	DS DF	M	14-28	St Lt	N	F
Savory, Summer	4672	*Satureja hortensis*	A	12-18"	S M	L	DS	W	7-14	Lt	R	F
Savory, Winter	4674	*Satureja montana*	P Z3	6-12"	S M	L	TP	M	10-21	Lt	N	F
Shiso	4678ff	*Perilla frutescens*	TA	2-3'	S M O	L	TP	W	7-14	Sk St Lt	L	FP
Skullcap	4964	*Scuttelaria lateriflora*	P Z4	1-2'	M O	L F	TP	M	14-21	St	P	P
Skullcap, Baikal	4962	*Scuttelaria baicalensis*	P Z4	1-2'	M O	R	TP	M	14-21	St	P	F
Spilanthes	4972	*Spilanthes oleracea*	TA	8-12"	M O E	F L	TP	W	4-10		P	F
Sweet Woodruff	4698	*Galium odoratum*	PZ5	6-8"	O M S	L	DS DF	C	28-200		P	Sh
Thyme	4687	*Thymus vulgaris*	P Z4	6-12"	S M	L	TP	C	14-28	Lt	N	F
Valerian	4984	*Valeriana officinalis*	P Z4	3-5'	M O	R	DS	M	10-21	St	L	FP
Vervain	4986	*Verbena hastata*	P Z4	5-6'	M O	R	TP	M	21-28	St Lt	N	F
Yarrow	4990	*Achillea millefolium*	P Z2	1-2'	M O	F L	DS DF	W	10-14	Lt	N	F

ff=and following

ABP: A=annual, B=biennial, P=perennial, TA= tender annual, SSA=self-sowing annual, TP=tender perennial, TP/A=tender perennial grown as annual, SP=short-lived perennial, Z=hardiness zone.
height: typical height at maturity.
uses: S=seasoning, B=beverage, M=medicine, O=ornamental, E=edible.
part: part that is used: S=seed, L=leaf, F=flower, R=root.
sow: DS=direct sow in spring ASAP, DW=direct sow when soil has warmed or after danger of frost has passed, TP=transplant, DF=direct sow in fall. Nearly any herb can be started indoors and transplanted, but this tends to be more work; TP means this method is strongly suggested for best results. Many perennials can be started in early summer indoors or out; they take several years to mature anyway, what's a few months?
temp: suggested soil temperatures for good germination: C=cool, 60-65˚, M=moderate, 65-70˚, W=warm, 70-85˚.
days: number of days to seedling emergence.
cover: L=cover lightly, P=pat down gently, R=rake or scuffle into soil, N=no, don't cover.
notes: Lt=needs light to germinate, Sc=scarify seed with sandpaper or emery board, Sk=soak seed 12-24 hrs, W=water sparingly, St=stratify seed; place in moist soil and freeze or refrigerate or alternate between the fridge and freezer.
Nearly any herb requiring stratification can be fall-sown in a cold frame—the winter does the work for you!
sun: F=full sun, P=part sun, FP=prefers full but tolerates part, PF=prefers part but tolerates full, Sh=shade, P(F)=prefers part, tolerates full only in cool or moist areas, F(P)=prefers full sun, needs part shade in hot climates.

Flowers at a Glance

Name	item#	Botanical Name	APB	height	uses	season	sow	start	temp	days	notes
Achillea (Yarrow)	5705, 6008	*Achillea spp.*	P	18-24"	BDC	ES-F	DS DF TP	8-10	C	10–14	Lt
Acroclinum	5710	*Helipterum roseum*	A	2'	DCB	MS-F	DW TP	8-9	C	14–21	
Ageratum	5000ff	*A. houstonianum*	A	8",24"	BCD	ES-F	TP	6-8	W	4–6	S
Alyssum	5004ff	*Lobularia maritima*	A	2-4"	FBW	ES-F*	DS TP	8-9	55-70	8–14	S
Amaranth, Elephant Head	5013	*Amaranthus gangeticus*	A	3-5'	CND	MS-F	TP DS	6-7	W	7–14	Lt
Ammi Majus	5015	*A. majus*	A	3-4'	C	ES-LS	TP DS	8-10	M	7-14	Ch2w
Angel's Breath	5018	*Gypsophila elegans*	A	18-24"	CB	ES-LS	DS TP	8-9	C	7-14	
Aster, China	5024ff	*Callistephus chinensis*	A	12-30"	BC	ES-F	TP	12-14	W	10–14	
Baby's Breath	6020	*Gypsophila paniculata*	P	24-40"	BDC	MS-LS	TP DS	8-10	M	14–21	S
Bachelor's Button	5051ff	*Centaurea cyanus*	A	24-36"	BC	ES-F*	DW TP	8-9	C	7–14	Cv
Balsam	5066	*Impatiens balsamina*	A	24"	B	MS-F	DW		W	8–10	S
Basketflower	5068	*Centaurea americana*	A	36-48"	BC	ES-LS	TP	8-10	C	10–14	Sk
Bee Balm	6022, 4734	*Monarda spp.*	P	30"	BCD	MS-LS	DS TP	8-10	C	14–21	S, Lt
Begonia	5070	*B. tuberhybrida*	A	8-12"	BW	ES-LS	TP	8-10	W	14–21	
Bellflower	6028	*Campanula carpatica*	P	6-10"	B	ES-F	TP	6-8	C	7–21	
Bells Of Ireland	5714	*Moluccella laevis*	A	30"	DBN	MS-F	TP	6-8	C	12–21	S, Ch5d50°
Blackberry Lily	6180	Belamcanda chinensis	P	28"	BD	MS-LS	TP DS DF	6-8	C	21-35	
Black-Eyed Susan	5359	*Rudbeckia hirta*	A	36"	BC	ES-LS	TP	6–8	W	14–21	
Blanketflower	6130	*Gaillardia grandiflora*	P	24-36"	BC	MS-F	TP DW	4-6	W	14–21	
Blazing Stars	5716	*Liatrus spicata*	P	18"	BCD	LS	DS TP	6-8	C	21–28	
Bupleurum	5720	*B. griffithii*	A	2'	DCN	ES-F	TP	8-10	C	14-21	
Butterfly Weed	6034	*Asclepias tuberosa*	P	24"	BCN	ES-LS	DS DF		W	21–28	Ch4w34-40°
Calendula	5075ff	*C. officinalis*	A	18-24"	BDCE	ES-F*	DS TP DF	6-8	C	4–10	Cv
Calliopsis	5092	*Coreopsis tinctoria*	SSA	30"	CB	MS-F	DS TP DF	6-8	C	4–10	S, rugged
Canary Creeper	5094	*Tropaeolum peregrinum*	A	8'	BV	LS-F	DW TP	6-8	C	7–14	Cv
Candytuft	5098	*Iberis odorata*	A	20"	BGF	MS-LS	DWG		M	14	
Carnation (also see Pink)	5102, 5143ff	*Dianthus spp.*	A	12-20"	BCF	MS-LS	TP	8	M	7–10	
Catmint, Persian	6038	*Nepeta mussinii*	P	12"	BG	Sp-MS	TP DS DF	6-8	C	10-14	
Celosia, plume	5725ff	*Celosia spp.*	A	3-6'	DCNB	LS	TP	8-10	W	10–14	
Cerinthe	5105	*C. major purpurescens*	A	12-18"	B	MS-F*	TP DW	6-8	W	7–14	
Chick-a-Biddy	5107	*Asarina scandens*	A	3-5'	WV	MS-F	DW		W	14	S
Chinese Lantern	5736	*Physalis alkekengi*	P	24"	DNC	MS-F	TP DF	8	W	14–21	S, invasive
Clarkia	5121	*C. unguiculata*	A	24"	B	MS-LS	TP DW	6-8	C	7–10	S
Cleome	5123ff	*C. hasslerana*	A	48"	BN	ES-LS	TP DW	4-6	W	10–12	
Cockscomb	5730ff	*Celosia spp.*	A	10"	BND	MS-LS	TP	4	W	10–14	
Coleus	5131	*Solenostemon scutellar.*	A	10-12"	WBN	MS-F	TP	8-10	M	10-14	Lt
Columbine	6042ff	*Aquilegia spp.*	P	18-30"	B	Sp-ES	TP DS	6-8	W	14–28	Lt
Coneflower, Yellow	6054	*Rudbeckia fulgida*	P	24"	BC	MS-LS	TP	6-8	W	7–21	Lt
Coral Bells	6062ff	*Huechera spp.*	P	12-18"	BG	ES-MS	TP	6-8	W	7–21	Lt
Coreopsis	6068	*C. grandiflora*	P	18"	BC	ES-F	TP	6-8	W	7–21	Lt
Cosmos	5136ff	*C. bipinnatus*	SSA	3-5'	BCS	MS-F	DW TP	2-4	W	7–10	
Cosmos, Yellow	5134	*C. sulphureus*	A	2-3'	BC	MS-F	DW TP	2-4	W	7–10	
Dahlia	5142	*D. x hybrida*	A	12-14"	BC	MS-F	TP	6-8	W	7–14	
Daisy	6272	*Chrysanthemum x super.*	P	36"	BC	ES-MS	TP	6-8	W	7–14	
Daisy, Gloriosa	5358	*Rudbeckia hirta*	SSA	24-36"	BCN	ES-LS	TP DF	6-8	W	14-21	
Delphinium	6080ff	*Delphinium x cultorum*	P	3-6'	BCD	MS-LS	TP	10	W	14–21	
Didiscus	5147	*Trachymeme coerulea*	A	24"	CB	MS-LS	DW TP	8	W	14–21	
Euphorbia	5149	*E. marginata*	A	24-36"	CNB	MS-F	DW TP	3	W	9–14	
Flax, Blue	6120	*Linum perenne lewisii*	P	9-12"	B	ES-LS	DS TP DF	6-8	C	21–28	
Flax, Scarlet	5150	*Linum grandifl. rubrum*	A	12-16"	B	MS-LS	DS				
Flower Of The Hour	6432	*Hibiscus trionum*	A	24"	B	LS-F*	DW TP	2-4	W	14–21	
Forget-Me-Not, Chinese	5110ff	*Cynoglossum amabile*	A	18"	B	MS-LS	DW TP	6	C		

ff=and following

"I particularly appreciate a) Your listing of the organic seeds first b) your non-glossy, non-slick, non-corporate orientation; and c) the wealth of details and tables provided in the catalog."
—Brett Grohsgal, Lexington Park, MD

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Flowers at a Glance

Name	item#	Botanical Name	APB	height	uses	season	sow	start	temp	days	notes
Four O'Clock	5165	*Mirabilis jalapa*	A	24-36"	BF	ES-LS	TP DW	6-8	M	5–7	
Foxglove	6110	*Digitalis purpurea*	SSB	24-36"	BN	MS-LS	TP	6-8	W	10-18	Lt
Gazania	5166ff	*Gazania spp.*	A	8-10"	B	LS-F	TP	6-8	M	14-21	Cv
Globe Amaranth	5742ff	*Gomphrena globosa*	A	2'	BD	MS-F*	TP	8	W	10–21	Dk
Godetia	5171	*Clarkia amoena*	A	16"	B	ES-MS	DS-DW		C	10–14	Lt
Heliotrope	5172	*Heliotropium arb.*	A	14-18"	FWBC	MS-F	TP	6-8	W	21–28	
Hollyhock	6140ff	*Alcea rosea*	SSB	4-8'	BS	MS-LS	TP DF	8-9	WM	7–21	St
Honesty or Silver Dollar	5762	*Lunaria annua*	B	3'	DN	LS-F	DS TP DF	6	CM	14-21	
Impatiens	5174ff	*Impatiens spp.*	A	8-14"	WB	ES-F	TP	10	W	7–21	Lt
Johnny Jump Up	6170	*Viola tricolor*	SSP	4-6"	EB	Sp-F*	DS DF		M	12–14	
Kale & Cabbage, Flowering	5156ff	*Brassica oleracea*	A	8-18"	BNE	F-F*	DS TP	5-7	C	7–14	start in June for Aug TP
Kiss-Me-over-the-Grdn	5176	*Polygonum orientale*	A	6-7'	NSB	MS-F	DS DF TP	4-6	M	14-20	CV
Larkspur	5177ff	*Consolida spp.*	A	24-36"	BCD	ES-F*	DS TP DF	6-8	C	14-21	Cv
Lavatera	5202ff	*L. trimestris*	A	20-36"	BC	MS-F	DS TP	6-8	C	14-21	Cv
Lobelia	5215	*Lobelia erinus*	A	4"	BW	ES-F	TP	6-8	C	20	S, Lt
Love-in-a-Mist	5782ff	*Nigella spp.*	A	15-24"	BD	MS-F	DS TP	6	C	10–14	
Love-Lies-Bleeding	5217	*Amaranthus caudatus*	A	24-48"	BND	MS-F	TP	5-6	W	7–10	PP
Lupine	6186	*Lupinus polyphyllus*	P	36"	B	ES	DS TP DF	6–8	W	14–30	
Mallow	4866, 5224	*Althaea / Malva*	P,B	4-6'	BNS	MS-F	DS DF				
Maltese Cross	6204	*Lychnis chalcedonica*	P	28-40"	BC	MS	TP	8-10	M	7–14	
Marigold	5228ff	*Tagetes spp.*	A	8-30"	BCW	MS-F	TP DW	3	W	5–8	Dk.
Mignonette	5263	*Reseda odorata*	A	10-15"	F	ES-LS	DW		M	10–14	S, Lt
Moon Lily	5265ff	*Datura inoxia*	A	3'	BFN	MS-LS					
Morning Glory	5271ff	*Ipomoea spp.*	A	8-12'	VS	ES-F	DW TP	3	W	10–21	Sc, Sk, PP
Nasturtium	5280ff	*Tropaeolum spp.*	A	12-16"	BEWC	ES-F	DW TP	3	M	10–14	Cv
Nicotiana	5300	*Nicotiana sylvestris*	A	4-6'	FN	MS-F	DS TP	6-8	W	7–14	Lt
Painted Tongue	5303	*Salpiglossis sinuata*	A	15"	BC	ES-F	TP	6-8	M	7–14	
Pansy	5304ff	*Viola x wittrockiana*	A	6"	BCW	Sp-ES	TP DF?	8-9	C	14–21	Dk
Petunia	5308ff	*P. x hybrida*	A	4-6"	WBG	ES-F	TP	8	W	7–14	Lt
Phlox annual	5313	*P. drummondii*	A	6-8"	BC	ES-F*	TP DS	8	C	7–14	
Phlox, perennial	6234	*P. paniculata*	P	36"	BC	LS-F	TP DF	10-12	C	21–30	
Pincushion Flower	5316	*Scabiosa atropurpurea*	A	36"	BC	MS-F*	TP DW	4-5	M	14–21	
Pink, Maiden	6196	*Dianthus deltoides*	P	6"	BCG	ES-LS	TP	6-8	M	7–14	Lt
Poppy	5318ff	*Papaver spp.*	SSA	24-48"	BCND	MS-LS	DF DS			14–21	seeds edible
Poppy, California	5352	*Eschscholzia californica*	A	8-12"	B	MS-LS	DS			14–21	
Poppy, perennial	6244ff	*Papaver spp.*	P	16"	BND	Sp-ES	DS			7–14	Lt
Portulaca	5356	*P. grandiflora*	A	4-10"	BWG	MS-F	TP DW	6-8	W	7–14	
Primrose	6262	*Primula vulgaris*	P	6-10"	B	Sp	TP	8-10	C	14–30	
Queen of the Meadow	6266	*Eupatorium purpureum*	P	5-9'	BNC	LS-F	DS DF	14-21			S, St
Sage, Gentian	5361	*Salvia patens*	A	30"	BC	MS-F	TP	12-14	C	21	S
Salvia	5663, 5804	*Salvia spp.*	A	12-18"	BCD	MS-F	TP	8-12	C	21	
Schizanthus	5365	*Schizanthus pinnatus*	A	18"	BC	MS-F	TP	8	C	14–21	S, Dk
Silkweed	6276	*Asclepias incarnata*	P	4'	B	MS-F	TP DS DF	6-8	M	21–28	S, Ch 2w
Snapdragon	5369	*Antirrhinum majus*	A	30-36"	BC	MS-F*	TP	8-10	W	7–14	
Sneezeweed	6282	*Helenium autumnale*	P	4-5'	BC	LS-F	TP	6-8	M	14-21	
Starflower	5810	*Scabiosa stellata*	A	18-24"	D	MS-F	TP	8-10	W	7–14	
Statice	5816ff	*Limonium sinuatum*	A	24-30"	DCB	MS-F	TP	8-9	W	7–14	
Statice, German	5848	*Goniolimon tataricum*	P	20"	D	LS-F	TP DS DF	6-8	W	14–21	
Statice, Russian	5852	*Psylliostachys suworowii*	A	18"	BCD	MS-LS	TP	6-8	W	14–21	
Stock	5374ff	*Matthiola incana*	A	12-18"	BC	ES-F*	DS TP	6-8	M	7–14	S
Strawflower	5860ff	*Helichrysum spp.*	A	14-40"	DBC	MS-F	TP	8-9	W	7–14	Lt, S
Sunflower	5400ff	*Helianthus spp.*	SSA	2-12'	CNS	LS-F	DW			7–14	seeds edible
Sunflower, false	6137	*Heliopsis scabra*	P	3-6'	BN	MS-F	TP	10-12	M	21	
Sunflower, Mexican	5459ff	*Tithonia rotundifolia*	A	4-6'	BNS	MS-F	TP DW	6	W	7–14	
Sweet Annie	5884	*Artemesia annua*	SSA	36-60"	FD	LS-F	DF TP	6-8	W	10–21	Lt, St
Sweet Pea	5440ff	*Lathyrus odoratus*	A	1-6'	CFSV	MS-LS	DS TP	6-8	C	14–21	Sk, Cv
Sweet Pea, perennial	6296	*Lathyrus latifolius*	P	5-6'	CSV	MS-LS	DS		C	21-24	Sk, Cv
Sweet William	6306	*Dianthus barbatus*	P	18"	FBC	ES	DS TP	6-8	M	7–14	
Thrift	6311	*Armeria maritima*	P	8"	B	ES	TP	12-14	M	14-21	
Thyme, Creeping	6316	*Thymus serpyllum*	P	2-3"	FGB	MS-LS	DS TP DF	8-9	C	14–28	Lt
Venidium	5461	*V. fastuosum*	A	18-24"	B	MS-F	TP	8-10	W	14–21	Lt
Verbena	5463ff	*Verbena spp.*	A	8", 48"	WBC	MS-F	TP	6-8	M	14–21	Lt, Ch 5-7d
Veronica	6326	*V. spicata*	P	24-30"	BC	MS-LS	TP	8-10	M	7–21	
Wallflower	5467	*Cheiranthus allionii*	B	9-12"	BFC	MS-F	TP DS	6-8	C	7-21	
Winged Everlasting	5890	*Ammobium alatum*	A	24"	D	MS-F	TP	8-10	M	10–14	
Xeranthemum	5770	*X. annuum*	A	3'	CD	MS-F	TP DS	8	M	7–21	
Zinnia	5468ff	*Zinnia spp.*	A	20-42"	BC	MS-F	TP DW	3-4	W	7–14	

ff=and following

ABP: A=annual, B=biennial, P=perennial, SS=self-sowing
height: typical height at maturity
uses: B=beds and borders, C=cutting, D=drying, E=edible, F=fragrance, G=ground cover, N=novel accent, S=screen, V=vining and climbing, W=windowbox, container
season: peak bloom time: Sp=spring, ES=early summer, MS=midsummer, LS=late summer F=fall until frost, F*=fall after frost
sow: DS=direct sow in spring ASAP, DW=direct sow when soil has warmed or after danger of frost has passed, TP=transplant, DF=direct sow in fall
start: suggested number of weeks before transplanting
temp: suggested soil temperatures for good germination: C=cool, 60-65˚, M=moderate, 65-70˚, W=warm, 70-85˚
days: number of days to seedling emergence
notes: Lt=needs light to germinate, S=surface sow, Cv= cover seed, Dk=needs darkness to germinate, Sc=scarify seed with sandpaper or emery board, Sk=soak seed 12-24hrs, St=stratify seed; place in moist soil and freeze or refrigerate or alternate between the fridge and freezer, Ch=chill seed, sometimes specifies duration (d=days, w=weeks) and temperature, PP=use peat pots

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Directions for ordering SEEDS

- See pages 2 & 3 for more information.
- Order only seeds (#'s 1-6499) on seeds form. Do not order potatoes (Moose Tubers) or supplies, cover crops or books (Organic Growers Supply) here. Potatoes order form is page 64C. Supplies order form is page 64E.
- Please fill in your address. We must have a road name for UPS shipments.
- Please plan your order before filling out the form. If you need more pages, make photocopies, download them from our website (www.fedcoseeds.com) or call (207) 873-7333.
- Please keep a copy of your order. Send us the original.
- Write clearly in **pen**, not pencil. Pencil fades and is hard to see at night.
- Your neatness helps us fill your order accurately and quickly. Avoid arrows, cross-outs and other distractions if possible.
- Make sure you have the correct catalog number. Do not write the item name. Write the catalog number with two-letter suffix only.
- Make sure you are ordering an available size. Write the code letter for the size. Do not write the weight.
- Please **make a subtotal for each column** and total your order even if paying by credit card.
- Writing your order in catalog number order is helpful, but not essential.
- Please start with #1 and fill consecutively. Skip spaces only for cross-outs. Finish the front side before using the back.

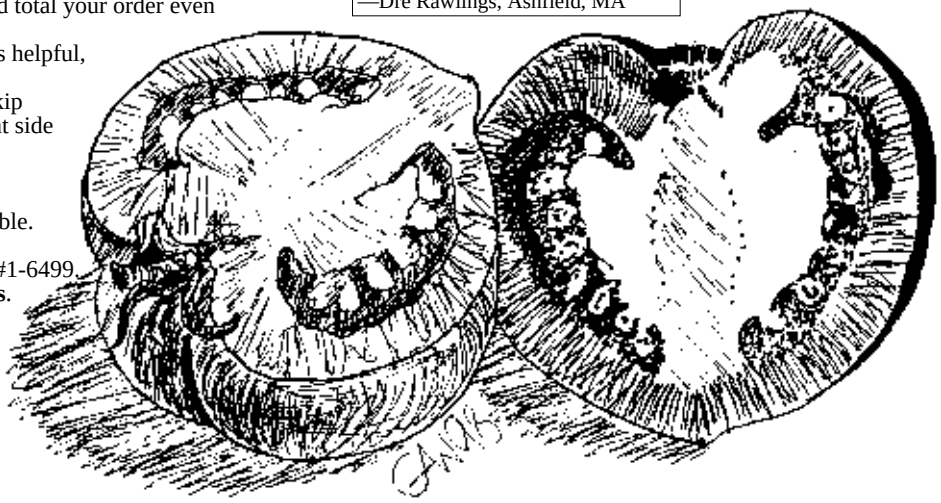
- **Only MAINE residents pay sales tax**.
- Fedco Seeds items #**5000-6399 only** are taxable.

- Seeds volume discounts apply only to items #1-6499.
- **Please attach separate page for suggestions**.

When filling your order please include the catalog letters as well as the numbers. If you get a number wrong, the letters take the guesswork out of figuring out what you wanted. Using the letters, we reduced collating errors to only 13 out of almost 400,000 packets ordered in 2003.

Fedco Seeds' substitution policy
We ask you on your order form whether you will accept substitutions and we abide by your wishes. By checking "yes" you will reduce the probabilities of getting out-of-stocked. After many customer requests we have liberalized our substitution guidelines:
- If you ordered a snow pea, we will substitute a snow pea. We will give preference to very similar snow peas of comparable maturity date, height, color, etc, but will substitute any other snow pea we have if necessary. If we have no other snow peas, we will *not* substitute a shell pea or a bean or anything else.
- We will substitute hybrids for open-pollinated varieties only when that is our sole alternative.
- If we have to substitute a more expensive variety, we will not charge you more.
- If we run out of organically produced seed we will substitute high quality commercial seed for the same variety unless you instruct us otherwise.
- If we run out of commercial seed we may substitute organically produced seed for the same variety, but charge you only the commercial seed cost.
- We are sorry that we cannot honor specific substitution requests.

"Is this form filled out correctly? Only the shadow knows."
—Dre Rawlings, Ashfield, MA



Group orders

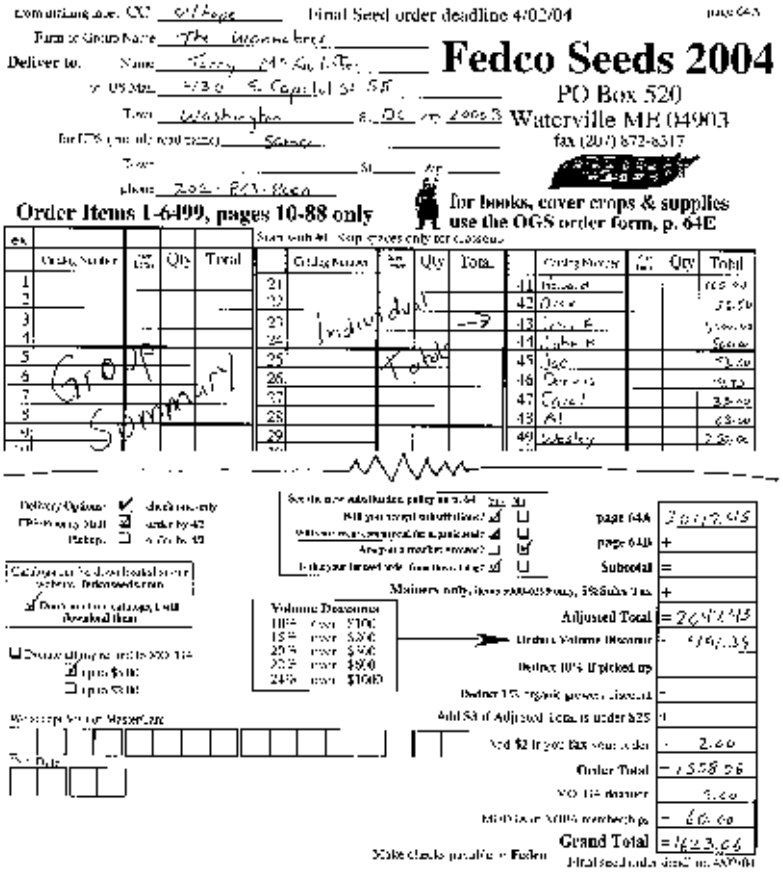
Bundle individual orders and one summary form for each division with address information, totals and *one payment*. Please keep copies. We will pull and package each order separately and ship all to *one address*. Discounts apply to one division, combined totals. You may not combine orders from different divisions to qualify for a higher discount.

How to prepare a summary form:

- Attach a separate summary page for **each division** (Seeds, MT, OGS, Trees). Use an order form with no items on it, fill in name and address blanks and totals information. See example on right.
- A summary form without individual totals is acceptable.
- Please use **one method of payment** for each division order (one check or one credit card). Or combine totals for all divisions and send one check or credit card payment for your entire order.
- Include credit card number and expiration date on summary form for each division.
- Indicate if you ordered seeds from us previously this season and tell what discount you qualify for (based on size of your first or largest seed order). Regardless of the size of your original order, additional orders under $50 do not qualify for discounts.
- Because our order turnaround is so rapid, we treat all add-ons as separate orders.

Group coordinators' responsibilities:

- Collect individual orders and payments from group members.
- Make sure each item of each individual order is on proper form (for example, no potatoes on the seeds form); make necessary corrections.
- Add up order subtotals for each division. Keep track of individual payments and settle with group members after the final shipment.
- Bundle orders for each division with a summary and one payment and mail to us.
- Receive and distribute back-ordered items.
- Send us correction sheets for any errors in group order.


Fedco Seeds 2004
PO Box 520
Waterville ME 04903
fax (207) 872-8517
Order Items 1-6499, pages 10-88 only
for books, cover crops & supplies use the OGS order form, p. 64E

Seeds per packet for herbs are approximate. They are intended as guides, not guarantees, because we pack by weight, not by count.

Some herbs are customarily grown from divisions or cuttings because they cannot come true from seed, such as French tarragon (available from our Trees catalog), scented thymes and flavored mints; some require fall sowing of fresh seed, such as sweet cicely and angelica.

See chart on p. 61 for uses and cultural information. A botanical index appears on p. 88.

CULINARY HERBS

We divide our herbs into two sections: culinary and medicinal. Several listed in the culinary section also have healing uses (Garlic Chives, Mint, Rosemary, Sage, Sweet Woodruff) and many others owe their traditional culinary use to digestive or preservative properties. According to Jean Ann Pollard in The Simply Grande Gardening Cookbook, dried herbs are three times stronger than fresh ones, and whole leaves retain flavor longer than those crumpled or powdered. The flavor should last at least a year.

4406AN Anise *Pimpinella anisum* Annual bears seeds with subtle licorice overtones and a spicy warming flavor. Drunk as a tea in the Middle East. Crush seeds to release full flavor. Used in baking, an essential ingredient in our Springerle. Like many other culinary seeds, anise helps ease indigestion, gas and colic. Also relaxes dry tight coughs. Plant in average-to-rich soil. Sets small white umbel flowers in July which ripen their seed in August and September. 1-3' tall. ② **A**=0.5g, 80¢ (~100 seeds), **B**=2g, $2.00, **C**=8g, $5.00, **D**=40g, $12.00 (200 seeds/g)

BASIL *Ocimum basilicum*

Indispensable culinary herb, in cultivation for more than 3,000 years, has fluctuated in popular esteem. Labeled the "insanity plant" by ancient Greeks and Romans, but declared the Royal Herb of France in the 16th century and named 2003 Herb of the Year. Basil is by far our most popular herb, the various kinds selling more than 7,000 packets annually. Direct seed when soil warms in late spring or transplant after danger of frost in well-drained moderately rich soil. Young seedlings heavily watered in cool cloudy conditions are vulnerable to damping off. Water sparingly at first. Use row covers to enhance early season vigor and speed maturity. Thin to 8-12", top mature plants to induce branching which will increase your total yield. Harvest before plants blossom. Absolutely intolerant of frost, damaged by temperatures in the 30s. Except where otherwise indicated, samples of all our basil seed have been tested and found to be fusarium-free. While not guaranteeing the entire lot is fusarium-free, negative samples improve your odds. See also #4730.

Sweet The heaviest-yielding variety, recommended for drying, all-around great eating, and large-scale pesto production. We sell more than 3,000 packets a year of these two strains of Sweet basil.

4414SB Sweet Genova strain. ④ **A**=4g, 80¢ (~2400 seeds), **B**=28g, $2.00, **C**=112g, $5.00, **D**=336g, $14.00 (600 seeds/g)

4415WO Sweet OG *Not tested for fusarium.* CCOF-certified. ③ **A**=4g, $1.50 (~2300 seeds), **B**=28g, $4.00, **C**=112g, $10.00, **D**=336g, $27.00 (575 seeds/g)

4418GB Genovese The choice of many connoisseurs for making pesto. Also called Perfumed Basil. Leaves are slightly smaller and finer than Sweet Basil with more aroma and potency. ③ **A**=2g, 80¢ (~1450 seeds), **B**=10g, $2.00, **C**=40g, $5.50, **D**=160g, $12.00 (725 seeds/g)

4422MB Mammoth This lettuce-leaf type has very large ruffled leaves especially suitable for drying or stuffing. Flavor similar to sweet basil. ② **A**=1g, 80¢ (~600 seeds), **B**=7g, $2.00, **C**=28g, $6.00, **D**=84g, $12.00 (600 seeds/g)

4430SB Spicy Bush *O. b. minimum* This marvelous little basil grows to about 8" and maintains a compact mound of light green leaves and white flowers. Its leaves are small, thin and strongly scented. Great as an ornamental border, in a windowbox, or as an indoor potted plant which can be snipped for culinary use. *Not tested for fusarium.* ③ **A**=0.5g, 80¢ (~420 seeds), **B**=5g, $2.00, **C**=15g, $5.50, **D**=60g, $14.00 (840 seeds/g)

4433TB Thai This basil lends the distinctly strong licorice-anise flavor to Thai food. An attractive 12-18" fine-leaved plant with purple stems, seed heads and flowers. Good container plant as well. 60 days to harvest. ③ **A**=0.5g, 80¢ (~490 seeds), **B**=4g, $2.00, **C**=12g, $5.50, **D**=36g, $12.00 (840 seeds/g)

4436AB Anise Originally from Persia. Vigorous mulberry-tinted basil with anise fragrance makes highly decorative tall bushy plant. Slow to bolt. Great in Italian tomato sauces. Also used in Thai and various Mediterranean cuisines. *Not tested for fusarium.* ③ **A**=0.5g, 80¢ (~330 seeds), **B**=7g, $2.00, **C**=28g, $5.50, **D**=84g, $14.00 (660 seeds/g)

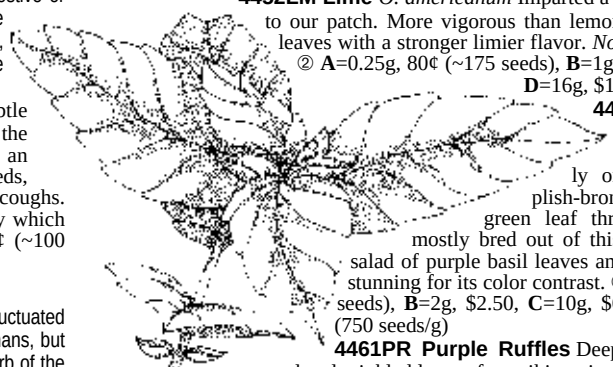
4442CB Cinnamon Similar vigorous growth habit to anise basil, but with a purplish veining on its leaves, and a distinctive cinnamon scent. Use in Middle Eastern or Greek cuisine. *Not tested for fusarium.* ③ **A**=0.5g, 80¢ (~300 seeds), **B**=4g, $2.00, **C**=16g, $5.50, **D**=48g, $12.00 (600 seeds/g)

4448LO Lemon OG *O.b. citriodorum* Basil often used in bouquets for its intense lemon fragrance. Not as vigorous as #**4449** Sweet Dani and more vulnerable to blight, but with a stronger truer lemon flavor. Great in fish dishes. Native to Thailand and Southeast Asia and featured in those cuisines. *Not tested for fusarium.* CCOF-certified. ③ **A**=0.5g, 80¢ (~375 seeds), **B**=4g, $2.00, **C**=16g, $5.50, **D**=48g, $14.00 (750 seeds/g)

4449SD Sweet Dani Lemon 1998 AAS for its extraordinary vigor which manifests even in the seedling stage and continues through the summer. Tall upright plant reaching almost 30" is 2-3 times as vigorous as **#4448** Lemon basil. Gets heavier yields of large light green leaves without needing extra coddling. ⑤ **A**=0.5g, $1.00, **B**=1.5g, $2.50, **C**=4.5g, $6.00, **D**=13.5g, $16.00

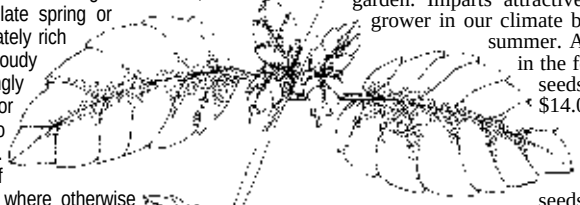
4450MB Mrs. Burns Lemon Chosen from the 1999 trial for its intense lemony fragrance. Medium-sized bright green leaves. Heirloom variety grown for 60 years in southeastern New Mexico, first offered commercially by Native Seeds/Search, has now achieved nationwide fame. ② **A**=0.5g, 80¢, **B**=4g, $2.00, **C**=20g, $5.50, **D**=60g, $12.00

4452LM Lime *O. americanum* Imparted a robust lime fragrance to our patch. More vigorous than lemon basil, darker green leaves with a stronger limier flavor. *Not tested for fusarium.* ② **A**=0.25g, 80¢ (~175 seeds), **B**=1g, $2.00, **C**=4g, $5.50, **D**=16g, $12.00 (700 seeds/g)



4456RR Red Rubin More vigorous than Purple Ruffles. Highly ornamental dark purplish-bronze foliage. The green leaf throwbacks have been mostly bred out of this improved strain. A salad of purple basil leaves and yellow tomatoes is stunning for its color contrast. ④ **A**=0.5g, 90¢ (~375 seeds), **B**=2g, $2.50, **C**=10g, $6.00, **D**=30g, $14.00 (750 seeds/g)

4461PR Purple Ruffles Deep purple plants with serrated and crinkled leaves for striking visual contrast in the herb garden. Imparts attractive color to basil vinegars. Not a vigorous grower in our climate but will reach a height of 18" in the heat of summer. A small percentage of plants will have green in the foliage. PVP. AAS. ③⑤ **A**=0.25g, 80¢ (~700 seeds), **B**=1g, $2.00, **C**=4g, $5.50, **D**=12g, $14.00 (700 seeds/g)



4507CW Caraway *Carum carvi* 2' feathery-leaved biennial grown primarily for its seeds which season soups, stews, breads and pastry. Its leaves are also edible, though milder than the seeds. Direct seed either in early spring or late summer for seeds the second year. Likes full sun. Will self-sow. ③ **A**=0.5g, 80¢ (~190 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $11.00 (380 seeds/g)

4512CH Chives *Allium schoenoprasum* Hardy perennial. 1-2' hollow grasslike leaves enhance any dish with their subtle onion flavor, providing a fine treat in very early spring. Lilac-colored flowers bloom in June and July, lovely in arrangements fresh or dried, also can be eaten. Used in Asia as a remedy for colds and flu. For best production, grow in well-drained well-watered soil and divide clumps every few years. Can be brought inside for the winter. However, I have found them indestructible even with complete neglect in extreme conditions. Zone 3. ③ **A**=0.5g, 80¢ (~450 seeds), **B**=7g, $2.00, **C**=28g, $6.00, **D**=112g, $14.00 (900 seeds/g)

Cilantro *Coriandrum sativum* Useful for its fresh green foliage, its dried seeds (coriander) and its edible flowers. This strain does not bolt as readily as those intended for seed production. Produces leaves in generous quantity which are an essential flavoring in Indian, Chinese, Southeast Asian, North African and Latin American cooking. Although some people do not care for its odor, it accentuates soups, salsas and bean dishes like no other herb. Annual grows to 2' with rosy lavender blooms. Make succession plantings in average well-drained soil and keep watered for lushest leaf production. In warm locations will stand longest as a fall crop. Thin early. Among herbs, only Sweet Basil is more popular.

4518CL Cilantro ③ **A**=2g, 80¢ (~120 seeds), **B**=28g, $2.00, **C**=112g, $5.00, **D**=448g, $8.00 (60 seeds/g)

4519CO Cilantro OG CCOF-certified. ③ **A**=1g, 80¢ (~60 seeds), **B**=4g, $2.00, **C**=56g, $5.00, **D**=224g, $12.00 (60 seeds/g)

DILL *Anethum graveolens*

Name derived from the Norse dilla, meaning to lull, as the plant is said to have soothing properties. Charlemagne used dill oil at banquets to stop hiccups and belching among his guests. The Puritans chewed dill seed to keep their stomachs from grumbling during long church services. Best known in this country for pickling, but essential for Russian, Polish and Hungarian cuisine. Annual, sometimes classed as biennial, grows to 4'. Upright plant branches out from single stalk; the feathery leaves known as dill weed. Likes well-drained moderately rich soil.

Bouquet Bouquet is usually grown for dill weed production because its leaves are sweeter and more refined than those of Mammoth. Foliage should be harvested early, before seed stalks mature. Growers will like its performance in packs.

4530BU Bouquet ③ **A**=4g, 80¢ (~2800 seeds), **B**=28g, $2.00, **C**=224g, $5.00, **D**=448g, $8.00 (700 seeds/g)

4531BO Bouquet Dill OG CCOF-certified. ③ **A**=2g, 80¢ (~1400 seeds), **B**=8g, $2.00, **C**=40g, $5.00, **D**=200g, $12.00 (700 seeds/g)

4536FL Fernleaf 1992 AAS. A dwarf variety suitable for small gardens or patio containers, Fernleaf grows only half as tall as other varieties and is very slow to go to seed. As of September, most of our May planting has not yet bolted, and its abundant piquant foliage is still suitable for harvesting. Multibranching plants spread 18-24". PVP. ⑤ **A**=0.5g, $1.00 (~470 seeds), **B**=1.5g, $2.50, **C**=4.5g,$5.00,**D**=13.5g,$12.00(940seeds/g)

4542MM Mammoth Variety generally grown for its seeds. Can also be used as dill weed, but the foliage is slightly darker, coarser and stronger-tasting than that of Bouquet. Otherwise, differences between the two in plant height and habit are very subtle. ②③ **A**=4g, 80¢ (~2800 seeds), **B**=28g, $2.00, **C**=224g, $5.00, **D**=448g, $8.00 (700 seeds/g)

FENNEL

Fœniculum vulgare

Genus gets its name from the Latin for hay, referring to the smell of the foliage. Perennial grown as an annual with a rich licoricey taste. Tender stalks and leaves are good for relishes, salads, and garden munches; leaves and seeds excellent with fish. Seeds used in sweets, baked goods & beverages. Bread becomes impregnated with a faint licorice scent when seasoned with fennel. Fennel prefers rich well-drained slightly limey soil. Direct seed in late April/early May, do not allow to dry out.

4556ZF Zefa Fino Bulbing type. 3' with edible blue-green stems and feathery green leaves. This strain, bred at the Swiss Federal Research Station, is very slow bolting. A spring planting will stand almost all summer. Thin to approximately 10" apart in 18" rows. *Seed in short supply; order early.* ③ **A**=0.5g, 80¢ (~120 seeds), **B**=3g, $2.00, **C**=9g, $5.00 (240 seeds/g)

Bronze Slow grower with very thin stems valued for its striking feathery bronze foliage. Delicious and decorative. An intriguing addition to mesclun and to flower beds.

4566BF Bronze ① **A**=0.2g, 80¢ (~60 seeds), **B**=0.6g, $2.00. *Not available in larger sizes.*

4567BO Bronze OG OT-certified. ① **A**=0.2g, $1.00 (~75 seeds), **B**=0.6g, $2.50, **C**=3g, $5.50, **D**=30g, $14.00 (375 seeds/g)

4577GC Garlic Chives *Allium tuberosum* Also called Chinese chives or Chinese leeks. Known as *jui zi* in China. 1' chive-like herb tastes like garlic and can be used as garlic substitute in salads and sautéed vegetables. White flowers may be eaten or used in dried arrangements. Has been used to warm the kidneys and stomach, to treat urinary incontinence and impotence. Sow thinly in spring, harvest sparingly till plants are vigorous. Perennial, but protect in cold areas. Easier than chives to bring indoors for winter. Zone 4. ③ **A**=0.5g, 80¢ (~105 seeds), **B**=14g, $2.50, **C**=56g, $6.00, **D**=168g, $14.00 (210 seeds/g)

4592LV Lovage *Levisticum officinale* An underrated herb with many uses. Leaves have a strong celery taste, and can flavor soups, stews and casseroles. Seeds can be crushed and added to bread and pastries, stems and roots candied in sugar syrup. Second-year plants are best for drying. Formerly used to mask the bitter herbs in medicinal concoctions. Leaves were sprinkled in shoes to revive weary travelers. Umbelliferous perennial grows 3-6'. Likes moist rich deep well-drained soil. Zone 4. ② **A**=0.5g, 80¢ (~145 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=48g, $12.00 (7,800 seeds/g)

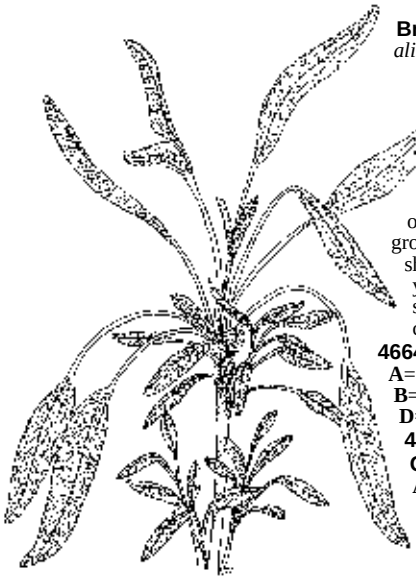
4616SM Sweet Marjoram *Origanum majorana* Grown as an annual in the North. 1' plant with grey-green rounded leaves of enchanting sweet fragrance. Cut often to prevent flowering. Use fresh or dried. Subject to damping off; do not overwater. Likes well-drained dry soil. ③ **A**=1g, 80¢ (~6000 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=84g, $12.00 (6,000 seeds/g)

4624GM Green Magic Mexican Tea *Chenopodium botrys* In our search for the best epazote we found this close relative which we prefer to the better-known herb *(C. ambrosioides)* because it is milder in flavor and more ornamental, yet has much the same uses in Mexican bean dishes and sauces. Its foliage, though oakleaf-shaped rather than serrated, still emits the pleasing pungent aroma characteristic of epazote. Annual thrives in rich soil, growing up to waist high. Same genus as lamb's quarters and quinoa. Will self sow. ③ **A**=0.1g, 80¢ (~500 seeds), **B**=0.3g, $2.00, **C**=1.5g, $5.00, **D**=6g, $12.00 (5,000 seeds/g)

4632CM Common Mint *Mentha spicata* Don't count on specific types of mint to come true from seed. This is the common tea mint. Can be grown directly in pots indoors in winter. Keep it in containers to check its invasive tendencies. Likes moist soil, full sun or partial shade. Perennial to Zone 4. ② **A**=0.1g, 80¢ (~1200 seeds), **B**=1g, $2.00, **C**=3g, $5.00, **D**=9g, $12.00 (1,200 seeds/g)

4648GR Greek Oregano *Origanum heracleoticum* The oregano to use in pizzas and other Mediterranean dishes. Low-growing plant with fragrant dull green and purple leaves and white flowers. Start indoors in spring for best results. Likes light well-drained soils. Will lose potency if soil is overfed. Hardy to Zone 4. ② **A**=0.05g, 80¢ (~500 seeds), **B**=0.15g, $2.00, **C**=0.6g, $5.00, **D**=3g, $12.00 (10,500 seeds/g)

4657RM Rosemary *Rosmarinus officinalis* Beloved tender perennial growing to 3-4'. Cannot withstand temperatures below 17˚, may be wintered over indoors if kept cool and moist. Try near a cool basement window and keep misted. Dark grey-green needle-like leaves conserve water. Blossoms range from deep blue to pale pink or white. Likes dry alkaline soil; peat pots are too acidic to be a good starting medium. Not a good germinator—30% is average. Zone 8. ②③ **A**=0.1g, 80¢ (~85 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00, **D**=4.8g, $12.00 (850 seeds/g)



Broadleaf Sage *Salvia officinalis* Grows up to 3', with blue flowers. Used fresh or dried. Tasty in stuffing blends, with eggs, cheese, poultry, pork. CR and Eli use it to enhance black tea and coffee. Fuzzy grey oblong leaves on stems which grow woody with age; plants should be replaced every 3 years. Likes well-drained rich soil with good nitrogen content. Zone 4.

4664BS Broadleaf Sage ③ **A**=1g, 80¢ (~125 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $12.00 (125 seeds/g)

4665SO Broadleaf Sage OG CCOF-certified. ③ **A**=1g, 80¢ (~125 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=48g, $12.00 (125 seeds/g)

4672SS Summer Savory *Satureja hortensis* Annual grows to 1½' with narrow dark-green leaves and lavender flowers. Cut often during growing season, before blossoms appear. Sow just before last frost in well-drained soil next to beans, their complement in the kitchen as well. Use with dry or green beans, rice, stuffings, or in onion soup. Left to bloom, it is beautiful in fall with dark purple foliage and lavender flowers. ③ **A**=1g, 80¢ (~1800 seeds), **B**=14g, $2.00, **C**=56g, $5.00, **D**=224g, $12.00 (1,800 seeds/g)

4674WS Winter Savory *S. montana* Leaves shinier and thicker, stronger and more pungent than summer savory. Can be used as a pepper substitute or to flavor dry beans or sauerkraut. Hardy dwarf bush perennial grows 6-12", thriving in dry poor soil. Makes an attractive border with its tiny green leaves and light lilac flowers. Tea used medicinally as a gargle for sore throats and to calm indigestion. Zone 3. ③④ **A**=0.1g, 80¢ (~290 seeds), **B**=0.4g, $2.00, **C**=2.4g, $5.00, **D**=9.6g, $12.00 (2,940 seeds/g)

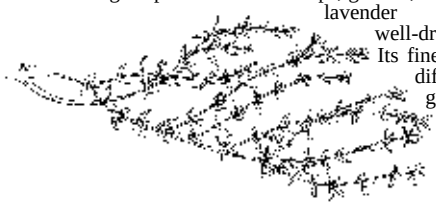
SHISO *Perilla frutescens*

Curly leaves have sharp interesting flavor used in Asian cuisine. A specific in Chinese medicine for seafood poisoning, zi su. Cannot stand frost; start indoors and transplant out in warm moist well-drained soil.

4678CP Cumin-Scented Perilla *Not available in 2004.*

4680RS Red Shiso Annual also known as perilla. Introduced from Japan in the 1850s. Its extremely ornamental purplish-red cinnamon-scented leaves are used in Japanese cuisine in sushi, sweet and sour sauces, and stir-fry. Grows up to 4'. To break dormancy, freeze and thaw the seed several times over a 21-45 day period. Soak seed several days or until they sprout. Move to indoor flats, then transplant into warm soil. ⑤ **A**=0.5g, 90¢ (~600 seeds), **B**=3g, $2.50, **C**=9g, $5.00, **D**=27g, $12.00 (1,200 seeds/g)

4687GT German Thyme *Thymus vulgaris* Creeping low-matted perennial to 12" brings depth of flavor to soups, gravies, casseroles. Bees love its short lavender flower spikes. Likes well-drained light dry alkaline soil. Its fine root system makes thyme difficult to move around the garden. Said to calm the nerves, soothe headaches. ④ **A**=0.2g, 80¢ (~700 seeds), **B**=3g, $2.00, **C**=15g, $5.00, **D**=45g, $14.00 (3,500 seeds/g)



4695WC Watercress *Nasturtium officinale* Hardy perennial native to Europe. Start seeds indoors and transplant to cold frame, keeping watered, or direct sow in soggy stream bank. Likes sunshine. Keep picked; it gets bitter if flowers are allowed to form. Use in salads and soups; rich in vitamins and minerals. ②③ **A**=0.25g, 80¢ (~1375 seeds), **B**=1g, $2.00, **C**=14g, $5.00, **D**=42g, $12.00 (5,500 seeds/g)

4698SW Sweet Woodruff *Galium odoratum* A lovely ground cover for shaded areas, its whorls of pointed leaves covered with clusters of tiny snowy-white spring flowers. Vanilla-scented leaves are essential in Maybowl, a traditional German punch, and also used in potpourris. Said to be helpful for migraine, nervous conditions and stomach pain. Drying increases its clover fragrance. Sow outdoors in a woodland site or in a heavy layer of well-rotted leaf mulch. Can be very slow to germinate—up to 200 days—and then may not be visible right away because the plants grow by underground rhizomes. Be patient, Woodruff will appear the following spring and grow 6-8" tall. Last offered by Fedco in 1995. Perennial, Zones 5-9. ③ **BACK! A**=0.2g, 80¢ (~36 seeds), **B**=0.6g, $2.00, **C**=2.4g, $5.00, **D**=7.2g, $12.00 (180 seeds/g)

MEDICINAL HERBS

Interest in traditional herbal home remedies continues to grow. Consult herbals for more detailed information. See also: Fennel, Garlic Chives, Mint, Rosemary, Sage, Sweet Woodruff in the culinary section; #5087 Resina Calendula, as well as Oats, Mammoth Red Clover, and Alfalfa in the cover crops section. Other medicinal herbs, including Black Cohosh, Goldenseal and Ginseng, are available from our Trees catalog. See chart on p. 61 for uses and cultural information. A botanical index appears on p. 88.

Statements about medicinal use of plants have not been evaluated by the FDA, and should not be used for the diagnosis, treatment, cure or prevention of any ailment. Before using or ingesting any medicinal plant, consult a healthcare practitioner familiar with botanical medicine.

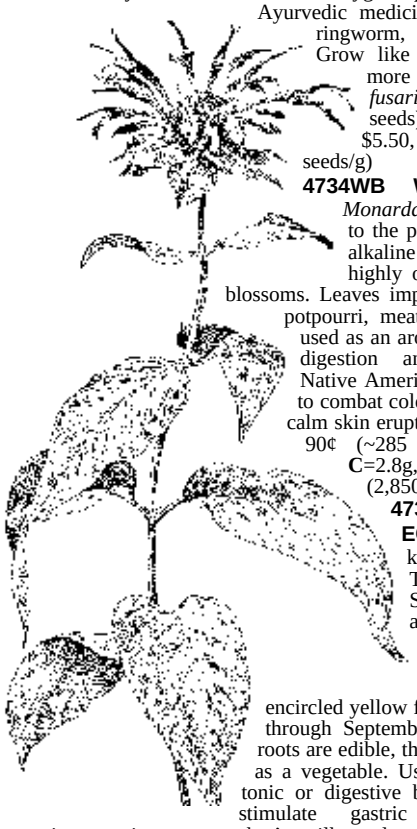
4708AO Anise Hyssop OG *Agastache fœniculum* Bushy midwestern native permeates the air with sweet licorice fragrance. Long-blooming nectar-laden purple flowers attract bees and make excellent garnishes. Anise-scented foliage and flowers delightful for tea or culinary seasoning. The tea induces sweating and strengthens the heart, was used also for fevers, colds, and by Native Americans as a cough medicine. Sow or transplant 1-1½' apart in well-drained loam. Perennial can grow 3' tall, 2' wide. Attracts hummingbirds. Related to neither anise nor hyssop. Zone 4. MT-certified. ① **A**=0.2g, 90¢ (~520 seeds), **B**=1g, $2.20, **C**=5g, $5.50, **D**=25g, $14.00 (2,600 seeds/g)

4711RO Arnica Chamissonis OG *A. c.* Meadow arnica is a native American species that will grow successfully in low-elevation gardens. *A. chamissonis* has been tested and is generally accepted as a substitute for the official European form *A. montana.* Use the yellow flowers at full flowering either fresh or dried in compresses and salves as an external remedy on unbroken skin to reduce swelling and bruising caused by traumatic injury, and on arthritic joints. 20" perennials yield well with multiple flower stalks blooming for most of the early season. Stratify seed and give it light to germinate. Start indoors and transplant into humus-rich soil in full sun. MOFGA-certified seed will have fluff attached. *Seed in short supply; order early.* ① **A**=0.02g, $1.00 (~50 seeds) (2,500 seeds/g)

4713WO Ashwagandha OG *Withania somnifera* Ashwagandha means "that which has the smell of a horse" and it is said to give the vitality and sexual energy of a horse; somnifera promotes sleep. Someone at an herb talk at Common Ground Fair mentioned that Ashwagandha seed was available through Fedco. So here it is! And about time, since this herb has wide value, being generally known as the ginseng of Ayurvedic medicine. Upright shrub exceeds 2' with inconspicuous green-to-yellow flowers ripening to red berries. Roots are dried at the end of the growing season and used internally (other plant parts are toxic if eaten). One of the best rejuvenators, especially good for the elderly, it tones without overstimulating and can be used in all conditions of weakness and chronic debilitation. Nikos has been drinking a milk decoction with honey and a little rose glycerite for much of the past year to good effect. Needs light to germinate. Sow indoors in the spring and transplant out to dry stony soil in sun or partial shade. Perennial grown as an annual in the north. OT-certified. ① **NEW! A**=0.1g, 90¢ (~100 seeds), **B**=0.4g, $2.20, **C**=1.2g, $5.50, **D**=6g, $14.00 (1,000 seeds/g)

4714TO Astragalus OG *A. membranaceus* Safe effective adaptogenic tonic to use daily throughout the year, aiding digestion and promoting immune system health (*wei qi*). Called *huang qi* in Chinese and Chinese Milk Vetch Root in English. Especially good for vegetarians. Also used in cases of exhaustion, food allergy, or depression. Used in China to increase assimilation, improve digestion, and eliminate excess fluid. The American Cancer Society published research showing immune strengthening among patients taking astragalus; other clinical research shows antibacterial effects, increased white blood cell production and decreased negative side effects for patients undergoing chemo and radiation therapies. Small pea-like flowers on upright stems with vetch-like leaves. 1½-4' perennial. Plant in deep well-drained slightly alkaline soil. Harvest 4-6 year-old roots in the fall. Zone 4. MOFGA-certified. ① **A**=0.2g, 90¢ (~10 seeds), **B**=0.6g, $2.20, **C**=2.4g, $5.50, **D**=7.2g, $14.00 (50 seeds/g)

4730SB Sacred Basil ECO *Ocimum sanctum* Native to India and used in Indian as well as Thai cuisine. Spicier than other basils and quicker to go to seed, but still usable when covered with purple flowers. Said to strengthen the immune system and to increase oxygen uptake in the brain. Used in Ayurvedic medicine as a poultice on acne, ringworm, eczema and insect bites. Grow like other basils, stands a bit more cold. *Not tested for fusarium*. ① **A**=0.1g, 90¢ (~180 seeds), **B**=1g, $2.20, **C**=7g, $5.50, **D**=21g, $12.00 (1,800 seeds/g)



4734WB Wild Bergamot ECO *Monarda fistulosa* A great addition to the perennial border in light dry alkaline soils. The 3-4' plants bear highly ornamental lavender-fringed blossoms. Leaves impart pungent aroma to teas, potpourri, meats and beans. Traditionally used as an aromatic stimulant to improve digestion and increase perspiration. Native Americans employed it internally to combat colds and flus and externally to calm skin eruptions. Zones 3-9. ① **A**=0.1g, 90¢ (~285 seeds), **B**=0.4g, $2.20, **C**=2.8g, $5.50, **D**=8.4g, $12.00 (2,850 seeds/g)

4738BT Blessed Thistle ECO *Cnicus benedictus* Also known as St. Benedict Thistle, Holy Thistle and Sacred Thistle. A hairy annual featuring branched bristly red stems, long spiny leaves with sinuate margins, and spine-encircled yellow flowers, blooming from July through September. Its leaves, flowers and roots are edible, the latter boiled as a vegetable. Used as a liver tonic or digestive bitter; said to stimulate gastric and bile secretions, to improve mother's milk, and to be good for hormonal imbalances. Originally from the Mediterranean, it prefers warm dry sunny locales with poor soil. *May be emetic in large doses.* Grows 2' tall and 1-1½' wide. ② **A**=0.5g, 90¢ (~20 seeds), **B**=3g, $2.50, **C**=15g, $7.00, **D**=45g, $18.00 (20 seeds/g)

4742BS Boneset ECO *Eupatorium perfoliatum* Also known as Common Thoroughwort. Originally used for "boneset fever." Still employed as a traditional flu remedy because of its ability to lower fevers, break up congestion and stimulate the immune system. The 3-5' perennial makes a late-season display of large white long-lasting corymbs. A good ornamental under damp garden conditions—will naturalize in favorable moist areas. Zones 3-8. ① **A**=0.1g, 90¢ (~700 seeds), **B**=0.5g, $2.20, **C**=2g, $5.50, **D**=6g, $15.00 (7,000 seeds/g)

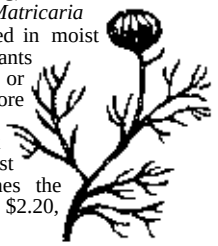
Borage *Borago officinalis* Bushy 2' plants produce many tiny blue, pink and purple flowers which make colorful additions to salads and can be used in cough syrups. Blossoms frozen in ice cubes lend cucumber flavor to cold drinks. Young leaves make good salad greens and a nourishing tea for nursing mothers. Seeds a good source of GLAs. Annual likes sun, prefers poor dry soil, will self sow vigorously. Young plants are easy to move around. Survives light frosts.

4747BR Borage ③ **A**=1g, 90¢ (~50 seeds), **B**=14g, $2.20, **C**=56g, $5.50, **D**=224g, $13.00 (50 seeds/g)

4748BO Borage OG CCOF-certified. ③ **A**=0.5g, 90¢ (~25 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $12.00 (50 seeds/g)

4756CN Catnip *Nepeta cataria* "If you set it, the cats will get it; if you sow it, they won't know it." Hardy perennial, will self-sow once established. Likes rich or sandy soils, tolerates poor soil and drought. Calms mild stomach disorders, produces restful sleep and relieves fever when added to teas. Catnip has been grown in British gardens for more than seven centuries and in North America for more than three. Tovah Martin writes that rats are reputed to despise it, so it is sometimes used as a companion plant for melons and squashes. Zones 3-8. ③ **A**=1g, 90¢ (~1400 seeds), **B**=7g, $2.20, **C**=28g, $5.50, **D**=112g, $12.00 (1,400 seeds/g)

4766GC German Chamomile *Matricaria recutita* Annual easily raised from seed in moist well-drained soil. Plant densely so plants support each other. Planting in rich soil or cutting the foliage reduces flower production. More floriferous than perennial (Roman) chamomile. Flower heads ready to gather when petals fall back from center. Try using a blueberry rake to harvest them. Chamomile tea calms nerves and soothes the stomach. ③ **A**=1g, 90¢ (~9500 seeds), **B**=3g, $2.20, **C**=15g, $5.50, **D**=45g, $12.00 (9,500 seeds/g)



CONEFLOWER *Echinacea spp.*

Possibly the best-known of the medicinal herbs, widely used as an immune system stimulant. Species contain slightly differing constituents, but all are antibacterial and antiviral. Ethnobotanists have identified at least 14 native North American nations which used Echinacea for similar purposes: sore throat, toothache, infection, wounds, snake bite and skin disorders, as well as hair combs and children's toys. Joanna Linden likes to tincture flowers and leaves in August, and use the same alcohol to tincture seeds and third-year roots in October. A wonderful garden perennial: late summer blooms attract butterflies and make good cutflowers; dew collects in the spiral mandala coneheads. Zones 3-10.

4774NC Narrow-Leaved Coneflower *E. angustifolia* Smallest and least vigorous of all the species, but with more tongue-tingling properties than others. Small taproots can be difficult to harvest. Overharvesting in the wild by zealous collectors has endangered this species, so cultivate some for your use. Short rose-pink petals, spreading and toothy. Tapered hairy leaf. 6-20" tall. Native to dry prairies west of the Mississippi, Saskatchewan to Texas. ③ **A**=0.2g, 90¢ (~60 seeds), **B**=0.6g, $2.20, **C**=1.8g, $5.50, **D**=5.4g, $12.00 (300 seeds/g)

Purple Coneflower *E. purpurea* Large, showy, vigorous and hardy, a popular garden perennial since the early 1700s. Large fibrous roots are easy to harvest. Though not a mix, it shows colorful flower variations from rose to lavender to purple which lend interest to the patch. Long downward curving petals around large spiny centers. Broad toothed leaf. Easy-to-grow, 2-4' tall, native to a wide range of habitats, from Appalachian woods to midwest prairies.

4776CS Purple Coneflower ECO ① **A**=1g, 90¢ (~260 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=48g, $12.00 (260 seeds/g)

4777CO Purple Coneflower OG MOFGA-certified. ① **A**=1g, $1.00 (~260 seeds), **B**=4g, $2.50 (260 seeds/g)

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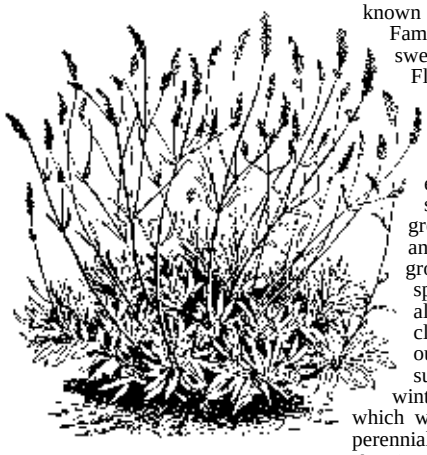
4784EC Elecampane *Inula helenium* Large dramatic plant is an excellent lung tonic. Important to the ancient Greeks, said to have sprung from the tears of Helen of Troy. Mucilaginous root relaxes lungs and helps clear mucus from them, calms cough. Antibacterial and antifungal, also used for asthma, bronchitis, cough and flu, especially in children. Helpful for scabies, herpes and other skin disorders (an old name is Scabwort). Plant in heavy moist well-drained loam with generous helpings of compost. Dig root in mid fall. 5-8' perennial with large bright yellow rayed flowers, blooming May to August. Zone 3. ③ **A**=0.1g, 90¢ (~160 seeds), **B**=0.3g, $2.20, **C**=1.2g, $5.50, **D**=3.6g, $12.00 (1,600 seeds/g)

4787FO Feverfew OG *Tanacetum parthenium* Strongly scented bushy plant with beautiful daisy-like white blooms good in bouquets. A tea from the leaves was traditionally used as a relaxant. Chewing regularly on a bitter leaf or two is said to prevent migraines. Sow indoors, set out in average well-drained soil when seedlings have four true leaves. Perennial to Zone 4, maybe 3. Self-sows prolifically. MT-certified. ① **A**=0.1g, $1.00 (~800 seeds), **B**=0.4g, $2.20, **C**=2g, $5.50, **D**=8g, $12.00 (8,000 seeds/g)

4796HH Horehound *Marrubium vulgare* Perennial forms a 2' bushy stand of grey-green wooly leaves, making a good border. Horehound candies were once a common remedy for coughs and the tea makes a strong remedy for coughs and lung congestion. One of the bitter herbs of Passover. Transplant while seedlings are still small or direct seed into light dry sandy soil. Hardy to Zone 3. ②③ **A**=0.2g, 90¢ (~190 seeds), **B**=1g, $2.20, **C**=4g, $5.50, **D**=12g, $12.00 (950 seeds/g)

4806HY Hyssop *Hyssopus officinalis* A beautiful aromatic perennial border plant which produces spikes of indigo flowers, traditionally used in cough syrups. Can be planted with rosemary and lavender for a colorful and fragrant effect. Its aroma stimulates alertness and mental clarity. Was used as a strewing herb, thrown on floors to mask odors. Add slightly bitter leaves to salads, soups and stews, or use as an expectorant tea. *People with epilepsy and pregnant women avoid use.* Dry light or sandy soil. Hardy to Zone 3. ② **A**=0.5g, 90¢ (~480 seeds), **B**=4g, $2.20, **C**=16g, $6.00, **D**=48g, $12.00 (960 seeds/g)

4829LM Lady's Mantle *Alchemilla mollis* I first saw this attractive plant in the lovely gardens at Avena Botanicals and admired its large sprays of greenish-yellow flowers. Its leaves hold rain and dew, sparkling in the early morning light. The alchemists thought that the dew could turn metal into gold; thus its botanical name. Better still, Lady's Mantle was believed to restore beauty, and a leaf tucked under the pillow to guarantee sweet dreams. Traditional remedy for women makes a good border and ground cover in shady locations. Likes average well-drained soil and moisture; tolerates most conditions. Softly hairy wavy-edged leaves unfold like fans in early spring. 12-18" hardy perennial. Zone 3. ② **A**=0.05g, 90¢ (~145 seeds), **B**=0.2g, $2.20, **C**=1g, $5.50, **D**=4g, $12.00 (2,900 seeds/g)



Lavender *Lavandula angustifolia* Also known as English lavender. Famous for centuries for its sweet soothing lasting scent. Flowers used dried in sachets, wreaths and arrangements, and as a tea for headache or exhaustion. Hardy perennial reaching 3', woody shrublike plant with grey-green needle-like foliage and lavender flowers growing on long-stemmed spikes. Likes well-drained alkaline sandy soil. Texts claim hardy to Zone 5, but our patch in Zone 3 has survived the last ten winters, including 1996-7 which was rough on many other perennials.

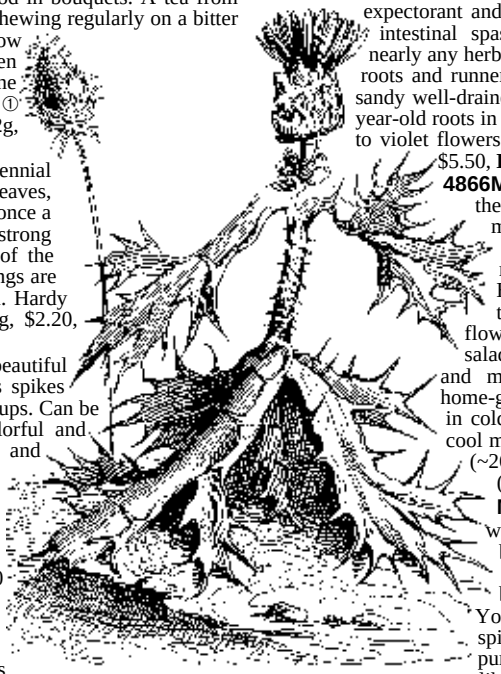
4836LV Lavender ③ **A**=0.3g, 90¢ (~315 seeds), **B**=3g, $2.20, **C**=15g, $5.50, **D**=45g, $12.00 (1,050 seeds/g)

4837LO Lavender OG CCOF-certified. ③ **A**=0.2g, 90¢, **B**=1g, $2.20, **C**=5g, $5.50, **D**=20g, $12.00

4846LB Lemon Balm *Melissa officinalis* Melissa is the Greek word for bee; the plant in flower attracts them. Perennial growing to 2'. Gather its yellow-green, heart-shaped shiny lemony leaves before flowering. Delicious as a tea, with fruit, or dried for sachets. Relaxing, calming, comforting and uplifting to the spirit. Likes very well-drained fertile soil; wet ground may winterkill it more than cold. Zone 4. ② **A**=0.3g, 90¢ (~550 seeds), **B**=3g, $2.20, **C**=15g, $5.50, **D**=45g, $12.00 (1,830 seeds/g)

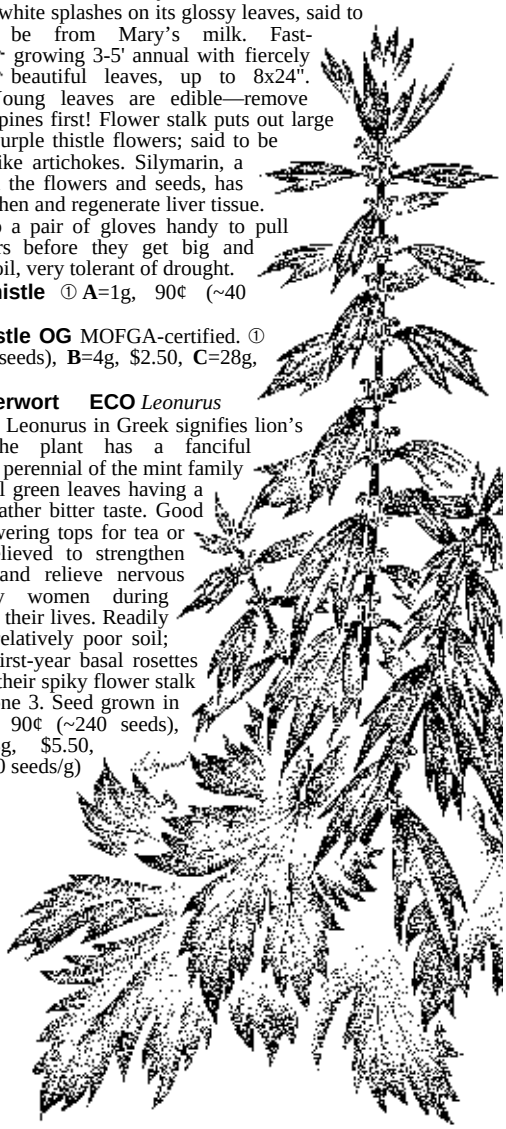
4854LM Lemon Mint *Monarda citriodora* A member of the bee balm genus in the mint family. Native to Appalachia and related to Oswego Tea. The tiered pinkish-purple flower spikes of this showy 2-3' plant are long-lasting in fresh bouquets and can be dried for everlasting arrangements. Its lemon-scented leaves are delicious and commonly used to impart a coarse mint flavor with a hint of oregano to tea. Inhale the steam to relieve cold symptoms. Best in light moist soil. Annual. ③ **A**=1g, 90¢ (~1850 seeds), **B**=7g, $2.20, **C**=28g, $5.50, **D**=84g, $12.00 (1,850 seeds/g)

4860LI Licorice *Glycyrrhiza glabra* Sweet and soothing root contains glycosides similar to the body's own natural steroids. Beneficial for revitalizing adrenal glands after steroid drug therapy, stress, overwork or excess coffee. Good for colds and bronchitis; reduces throat irritation, yet an expectorant and anti-spasmodic. Also helpful for stomach ulcers and intestinal spasms. Adds sweetness, harmony and palatability to nearly any herbal combination. Give it lots of room so it can create the roots and runners you want. Weak competitor against weeds. Prefers sandy well-drained loam and a mulch to prevent heaving. Harvest 3-4 year-old roots in the fall. Perennial to Zone 4, grows 1½-4', bears white to violet flowers. ② **A**=0.1g, 90¢ (~9 seeds), **B**=0.3g, $2.20, **C**=0.9g, $5.50, **D**=4.5g, $12.00 (95 seeds/g)



4866MO Marshmallow OG *Althaea officinalis* Cousin to the hollyhock, used to soothe and soften irritated skin and membranes and to relieve stuck hacking coughs. It also mildly stimulates white blood cell production and relieves urinary tract infections and prostate problems. Harvest root of this 4-6' ornamental plant in autumn of the third year. Meanwhile, enjoy the showiness of the flowers through the summer or eat the velvety leaves in salad. All mallows contain soothing mucilage in the root, and marshmallow has the most, so it makes a great home-garden substitute for slippery elm. For tea, steep roots in cold water for several hours rather than boiling. Plant in cool moist soil. Zone 4. MOFGA-certified. ① **A**=0.4g, $1.00 (~260 seeds), **B**=1.2g, $2.50, **C**=6g, $5.50, **D**=24g, $14.00 (650 seeds/g)

Milk Thistle *Silybum marianum* Named for the bold white splashes on its glossy leaves, said to be from Mary's milk. Fast-growing 3-5' annual with fiercely beautiful leaves, up to 8x24". Young leaves are edible—remove spines first! Flower stalk puts out large purple thistle flowers; said to be eaten like artichokes. Silymarin, a compound found in the flowers and seeds, has been used to strengthen and regenerate liver tissue. Will self-sow; keep a pair of gloves handy to pull unwanted volunteers before they get big and prickly. Likes dry soil, very tolerant of drought.

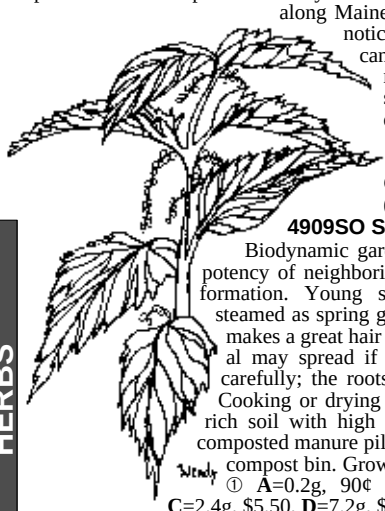


4872MT Milk Thistle ① **A**=1g, 90¢ (~40 seeds), **B**=4g, $2.20

4873TO Milk Thistle OG MOFGA-certified. ① **A**=1g, $1.00 (~40 seeds), **B**=4g, $2.50, **C**=28g, $6.00 (40 seeds/g)

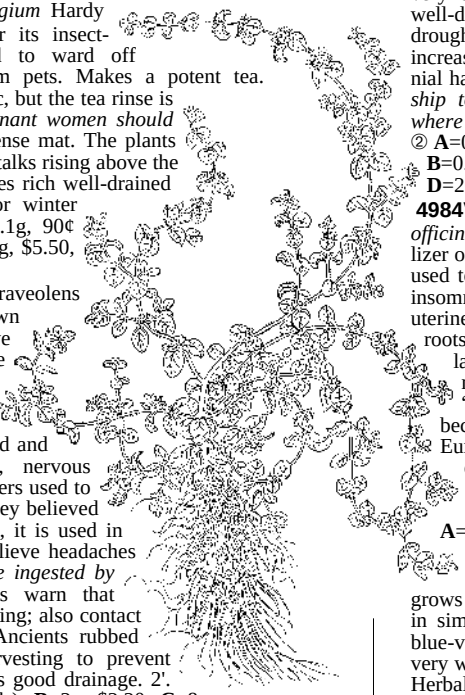
4884MW Motherwort ECO *Leonurus cardiaca* The genus Leonurus in Greek signifies lion's tail, to which the plant has a fanciful resemblance. Hardy perennial of the mint family grows 2-3' with dull green leaves having a pungent odor and rather bitter taste. Good bee plant. Pick flowering tops for tea or herbal tincture. Believed to strengthen the heart muscle and relieve nervous tension. Used by women during transitional times in their lives. Readily self-sows even in relatively poor soil; pull up unwanted first-year basal rosettes before they put out their spiky flower stalk the second year. Zone 3. Seed grown in Maine. ① **A**=0.2g, 90¢ (~240 seeds), **B**=1g, $2.20, **C**=3g, $5.50, **D**=9g, $12.00 (1,200 seeds/g)

4900MU Mullein ECO *Verbascum thapsus* Soft and fuzzy grey-green Mullein leaves have mucilaginous properties that soothe and lubricate tissue, help relieve bronchitis and other respiratory ailments. Mullein flowers, infused in oil, are used externally for such ailments as earache, hemorrhoids, chilblain and rheumatism. Its huge velvety leaves have even been used for toilet paper. A stately biennial, the leaves form a rosette the first year. Sends up a tall dramatic spike of small yellow flowers the second. Once common along Maine's roadsides, mullein has become noticeably less abundant. Gardeners can domesticate this striking ornamental. Favors well-drained slightly poor soil. Zone 3. Biodynamically grown but not Demeter-certified. ① **A**=0.1g, 90¢ (~700 seeds), **B**=0.4g, $2.20, **C**=4g, $5.50, **D**=12g, $14.00 (7,000 seeds/g)



4909SO Stinging Nettle OG *Urtica dioica* Biodynamic gardeners use nettles to increase the potency of neighboring herbs, and to stimulate humus formation. Young shoots and leaves are delicious steamed as spring greens, very high in minerals. Also makes a great hair rinse or dry chicken feed. Perennial may spread if not harvested. Choose your spot carefully; the roots as well as the leaves can sting. Cooking or drying removes the sting. Plant in damp rich soil with high nitrogen content; especially likes composted manure piles or the leaky side of your lushest compost bin. Grows 3-6'. Zone 2. MOFGA-certified. ① **A**=0.2g, 90¢ (~1,240 seeds), **B**=0.6g, $2.20, **C**=2.4g, $5.50, **D**=7.2g, $12.00 (6,200 seeds/g)

4924PR Pennyroyal *Mentha pulegium* Hardy aromatic groundcover notorious for its insect-repellent properties. Can be used to ward off mosquitoes and to repel fleas from pets. Makes a potent tea. Pennyroyal's distilled oil can be toxic, but the tea rinse is safe for external use. *Caution: Pregnant women should not use.* Plant 6" apart to make a dense mat. The plants creep with only the lavender flower stalks rising above the ground. Perennial of mint family likes rich well-drained soil with good moisture. Mulch for winter protection in Zones 4 and 5. ② **A**=0.1g, 90¢ (~1400 seeds), **B**=0.3g, $2.20, **C**=1.5g, $5.50, **D**=6g, $12.00 (14,000 seeds/g)



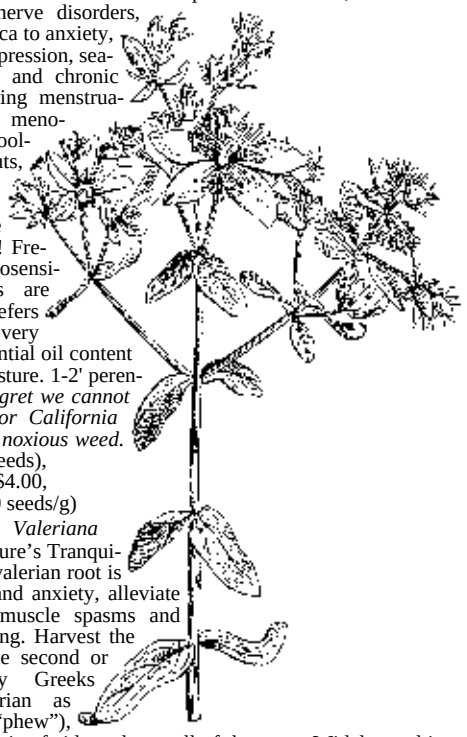
4936RU Rue *Ruta graveolens* Graveolens means "strong smelling." Also known as Herb-of-Grace. Very attractive perennial shows blue-green foliage with delicate yellow flowers. Used as an insect and deer repellent. Its leaves, aromatic and bitter, contain iron and rutin for strengthening blood and vessels. Calms heart palpitations, nervous indigestion and colic. European painters used to consume a great deal of it because they believed it was good for their vision! Indeed, it is used in eyewash to soothe tired eyes and relieve headaches from eyestrain. *Rue should never be ingested by pregnant women.* Several herbalists warn that large doses can cause pain and vomiting; also contact dermatitis in sensitive individuals. Ancients rubbed their arms in olive oil before harvesting to prevent dermatitis. Likes poor soil and needs good drainage. 2'. Zone 3. ② **A**=0.5g, 90¢ (~300 seeds), **B**=2g, $2.20, **C**=8g, $5.50, **D**=24g, $12.00 (600 seeds/g)

4962BS Baikal Skullcap ECO *Scuttelaria baicalensis* Beautiful little perennial with a myriad of small violet monkshood-shaped blooms on a 1-2' subshrub. Looks like a shiny rosemary with slender ovate leaves. A definite candidate for the rock garden, it tolerates drought and grows best in light well-drained soil. Important as the Chinese herb *huang qin*, 3-4 year roots are dried and used as a bitter sedative cooling herb that lowers fever, blood pressure and cholesterol levels while stimulating the liver; also used to stop bleeding. To encourage the roots' optimal medicinal powers, pinch buds and don't let flowers bloom. Zone 3. ① **A**=0.25g, 90¢ (~155 seeds), **B**=1g, $2.20, **C**=3g, $5.50, **D**=12g, $12.00 (620 seeds/g)

4964SK Mad-dog Skullcap ECO *S. lateriflora* Often called Virginia Skullcap, native spreading perennial needs moist rich soil and likes partial shade. Herbalists claim it is an effective headache remedy, great for insomnia and both calms and strengthens the nervous system. Flowering tops of skullcap used in daily teas as well as formulas for chronic conditions. Called Mad-dog because the tea was once used as a folk remedy for rabies. Enjoy its numerous small blue flowers from July through September or put the leaves in a pillow to induce restful sleep. 1-2' plant is hardy to Zone 4. ① **A**=0.05g, 90¢ (~29 seeds), **B**=0.2g, $2.20, **C**=0.8g, $5.50, **D**=2.4g, $14.00 (580 seeds/g).

4972SP Spilanthes *S. oleracea* Give visitors to your garden a taste and watch for their quick reaction—probably either blissed contentment or horrified concern. Spilanthes' remarkable tingling and mouth-numbing properties appear rapidly and last a while. Commonly known as Salad Cress or Toothache Plant, it was introduced from Brazil to North America in the 1860s and listed as Para Cress in seed catalogs a century ago. Use its bronzy-purple leaves in salad or chew the leaves and flowers for temporary pain relief. Its immune-stimulating properties, similar to echinacea's, are giving this herb a wider audience. Highly frost-sensitive and must be started indoors in warmth and transplanted after all danger of frost. Adds unusual beauty with its low growth habit and rayless red flowers surrounded by yellow rings. Makes a colorful border planting in fertile moist soil as well as a good conversation piece and valuable herb. ①③ **A**=0.02g, $1.00 (~60 seeds), **B**=0.08g, $2.50, **C**=0.32g, $7.00, **D**=0.96g, $18.00 (3,200 seeds/g)

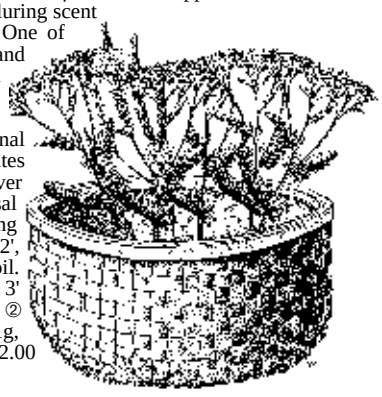
4979SJ St Johnswort *Hypericum perforatum* Pretty yellow flower of fields and meadows turns tinctures and oils deep red. Used as tea, tincture or infused oil for many nerve disorders, from neuralgia and sciatica to anxiety, insomnia, stress, mild depression, seasonal affective disorder and chronic exhaustion. Helpful during menstruation, postpartum and menopause. The oil is also cooling to sunburn and cuts, soothing to strained joints and muscles. Was even used in the Middle Ages for sword wounds! Frequent use can cause photosensitivity. Small seedlings are very slow growing. Prefers well-drained dry soil; very drought tolerant but essential oil content increases with some moisture. 1-2' perennial hardy to Zone 3. *Regret we cannot ship to North Dakota or California where it is considered a noxious weed.* ② **A**=0.1g, 90¢ (~1200 seeds), **B**=0.5g, $2.20, **C**=5g, $4.00, **D**=20g, $12.00 (12,000 seeds/g)



4984VL Valerian *Valeriana officinalis* Known as Nature's Tranquilizer or Herbal Valium, valerian root is used to reduce tension and anxiety, alleviate insomnia, and relieve muscle spasms and uterine or bowel cramping. Harvest the roots in the fall of the second or later year. Early Greeks referred to valerian as "phu" (like our "phew"), because of the distinctive fetid musky smell of the roots. Widely used in Europe as a tranquilizer, both for adults and hyperactive kids. Avoid high doses for prolonged periods. Tall leafy 3-5' plant with clusters of honey-scented pale pink flowers. Remove flowers to hasten root development. Plant in moist soil about 1' apart. Hardy to Zone 3. ② **A**=0.2g, 90¢ (~160 seeds), **B**=0.6g, $2.20, **C**=2.4g, $5.50, **D**=7.2g, $12.00 (800 seeds/g)

4986BV Blue Vervain ECO *Verbena hastata* This 5-6' perennial grows naturally in the moist soils of thickets and meadows and will do well in similar garden conditions, sending up many terminal spikes of bristly blue-violet flower clusters the entire season. Although scraggly, it blends very well with many kinds of flowers by stretching its spikes amongst them. Herbalist Gail Edwards finds it "a powerful spiritual presence" and nervous system tonic. Similar to *V. officinalis*, but more alterative, vervain acts mainly on the liver and lungs. Also used for menstrual disorders. Its roots are more active than its leaves. Likes light well-drained moist soil. Zone 3. ① **A**=0.1g, 90¢ (~350 seeds), **B**=0.4g, $2.20, **C**=4g, $5.50, **D**=12g, $12.00 (3,500 seeds/g)

4990WY White Yarrow *Achillea millefolium* Flat-topped white flowers bloom June-August with an odd alluring scent that attracts bees and butterflies. One of the most popular herbs for colds and flu. A hot cup of tea induces a sweat to throw off heat and toxins. Also used to lower blood pressure, and to stanch internal and external bleeding. New research indicates yarrow may be helpful for hay fever or other allergenic mucosal reactions. Avoid large doses during pregnancy. Perennial grows 1-2', spreads slowly, preferring lean soil. Rich garden soil may produce lush 3' plants which need staking. Zone 2. ② **A**=0.1g, 90¢ (~700 seeds), **B**=1g, $2.20, **C**=14g, $5.50, **D**=56g, $12.00 (7,000 seeds/g)



ANNUAL FLOWERS

Seeds per packet for flowers are approximate. They are intended as guides, not guarantees, because we pack by weight, not by count.

Flowers are arranged here by common name. See chart on pp. 62-63 for cultural information and common uses. A botanical index appears on p. 88.

Flowers have often been connected with certain sentiments. For your amusement, we've recreated the language of flowers according to the 1882 catalog of S.Y. Haynes Co. in Philadelphia.

AGERATUM *A. houstonianum*

For undying affection. Showy annual also known as Flossflower. Great for summer borders. Water in hot weather. Will not tolerate frost. Start indoors in a warm spot 6-8 weeks before last frost. Cut for vase when flowers are first opening.

5000BB Blue Blazer F-1 hybrid. Puffy deep blue flowers on 8" plant. Very popular for borders and bedding. Starts blooming early, can withstand heat and continue into fall. ② **A**=0.05g, $2.00 (~300 seeds), **B**=0.2g, $6.00 (6,000 seeds/g)

5002BH Blue Horizon F-1 hybrid. *Dropped by the trade. We regret not available in 2004.*

5003WB White Bouquet Finally a white ageratum that doesn't get "dirty" after a few rains. Blooms lasted from July 1 to Oct. 2 in 2001, almost as long in 2002. In addition to steadfast color, White Bouquet boasts nice long stems, excellent for cutting. 24". ③ **A**=0.01g, $2.00 (~80 seeds), **B**=0.05g, $6.00 (8,000 seeds/g)

ALYSSUM *Lobularia maritima*

For worth beyond beauty. Free-flowering ground cover, blossoming from late spring till fall. Has a fragrance like fresh-mown hay. Cascading habit makes alyssum excellent for windowboxes or terrace edges. Start seed in cool place 2 mos. before setting out. Needs light to germinate. Transplant seedlings 4-8" apart. Cool growing temperatures preserve color intensity. Easy to grow, likes sun, tolerates some shade. To extend their season, shear plants halfway back four weeks after bloom. Resistant to frost, will tolerate temperatures below 25˚. 3,200 seeds/g.

5004CS Carpet of Snow Great-smelling dwarf white. 4". Formerly known as Little Gem, predates 1890. ③ **A**=0.5g, 80¢ (~1,600 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=84g, $12.00

5007PC Pastel Carpet Pleasing shades of violet, rose, pink and white. 2½". ⑤ **A**=0.5g, $1.20 (~1,600 seeds), **B**=2g, $4.00, **C**=6g, $10.00, **D**=24g, $30.00

5013EO Elephant Head Amaranth OG *Amaranthus gangeticus* This 110-year old heirloom has a flair for the dramatic. As one customer put it, "It is a vigorous grower, beautiful in the field and knocks 'em out at farmers markets!" The deep red, almost purple bloom develops a 6-12" "trunk" at its top during August. The plant grows to a height of 3-4' and the bloom is about 12-18" at the base. Seed from German immigrants saved by three generations of gardeners in Idaho, popularized by Seeds of Change®. OT-certified. ① **A**=0.1g, 90¢, **B**=0.3g, $2.50, **C**=1.2g, $5.50

5015AM Ammi Majus *Ammi Majus* Also known as White Dill, False Queen Anne's Lace and Bishop's Weed. Grows 3-4'. This popular florists' filler looks like an elegant cousin to Queen Anne's Lace. I was enchanted by its attractive green buds and intoxicated by its aroma. Flat white lacy flower heads 5-6" across lend an airiness to bouquets. Best cut when all the florets are nearly open but before they shed pollen, Ammi will last 5-7 days in the vase. Prechill seeds two weeks. Cover seed lightly. Need fluctuating temperatures, 80˚ F days and 50˚ F at night. Do not apply bottom heat. Germinates 7-14 days. *Caution: Contact with the sap in the presence of sunlight causes dermatitis in some people.* ③ **A**=0.5g, 80¢ (~510 seeds), **B**=2g, $2.00, **C**=20g, $5.00 (1,020 seeds/g)

5018RS Rosea Angel's Breath *Gypsophila elegans* Pretty shell-pink single flowers blossom all summer on wispy stalks. Start in cool place indoors 2 months before setting outdoors or direct sow. Likes full sun and well-drained not overly fertile soil. 22". Good cutflowers. ② **A**=0.5g, 80¢ (~1,050 seeds), **B**=4g, $2.50, **C**=16g, $6.00, **D**=48g, $16.00 (2,100 seeds/g)

CHINA ASTER *Callistephus chinensis*

For afterthought. Callistephus is from Greek kallos meaning beautiful and stephos meaning crown. The China Aster began its journey west around 1730 when a Jesuit missionary noticed it growing in a field near Beijing. By the late 1700s China Asters were among the most cultivated of all flowers. Good as bedding plants or cutflowers. Range of color includes blues, purples, pinks and white. Sow indoors in a warm spot in late winter, transplant after danger of frost. Cut stems when 2-4 flowers have opened. All types about 450 seeds/g. The Pink Poodle aster (Henderson, 1902) is our favorite lost old-time variety.

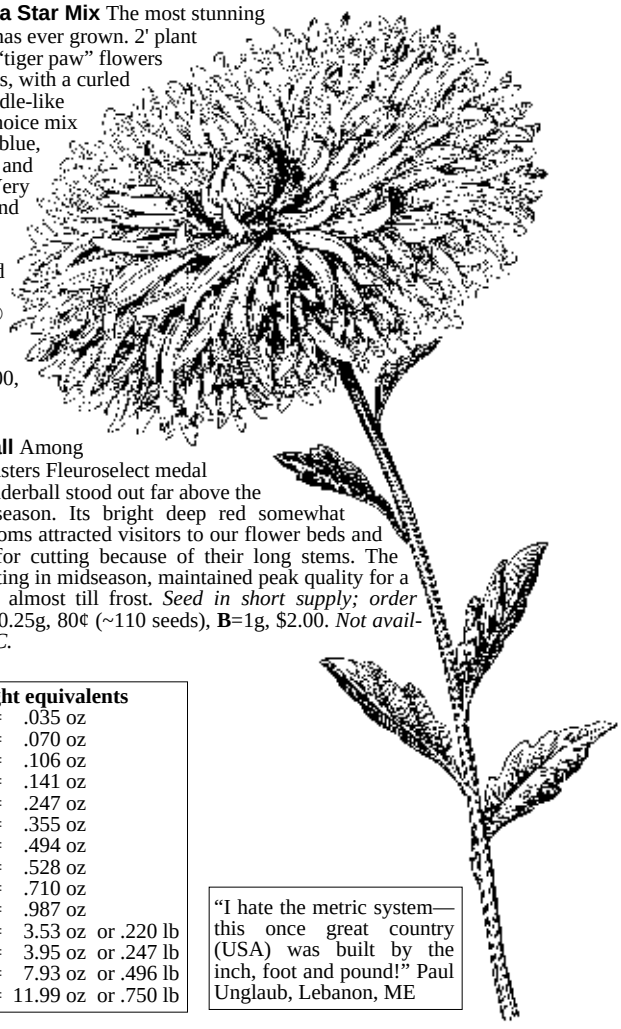
5024ED Early Dawn Mix By far our earliest aster, Early Dawn provides bright splashes of color beginning in July. Will continue prolific bloom production if kept deadheaded. Nothing enriches bouquets like the first asters. 12-18". ③ **A**=0.5g, $1.00 (~210 seeds), **B**=2g, $2.00, **C**=6g, $5.00

5028CR Crego Mix Although a week later than Early Dawn, the ostrich feather blooms are bolder and seem to hold better in wet and/or cold conditions. 2' plants with 4" diameter flowers. Park's 1934 Flower Book called them "a humdinger" and Maule's 1935 Seed Book featured them in color on the back cover. ③ **A**=0.5g, 80¢ (~250 seeds), **B**=4g, $2.00, **C**=16g, $5.00

5030MM Matsumoto Aster A very classy cutflower which may be harvested by the individual stem or in its entirety. Flowers sport distinct yellow centers amidst a variety of shades (apricot, blue, pink, red, rose, salmon and white) about 100 days after sowing. 2" semi-double blooms are concentrated at the top of strong 2½' stems. ② **A**=0.2g, $1.80 (~90 seeds), **B**=3g, $6.00 (450 seeds/g)

5032PR Princess Mix 2-3" flowers on long wiry stems. The pompon blooms are richly colored with deeply crested centers. Elegant cutflowers which tend to be late bloomers. No other variety can match them in September. Outstanding in our beds in 2000. ② **A**=0.25g, 80¢ (~100 seeds), **B**=2g, $2.00, **C**=8g, $5.00

5040SS Sea Star Mix The most stunning aster Nikos has ever grown. 2' plant bears fancy "tiger paw" flowers 3½-4" across, with a curled whorl of needle-like petals in a choice mix of lavender, blue, pinks, violet and soft white. Very productive and uniform. Excellent in bouquets and striking in the garden. ② **A**=0.2g, 80¢ (~90 seeds), **B**=0.6g, $2.00, **C**=3g, $5.00



5045TH Thunderball Among our 30 trial asters Fleuroselect medal winner Thunderball stood out far above the rest in midseason. Its bright deep red somewhat spiky 3" blooms attracted visitors to our flower beds and were great for cutting because of their long stems. The blooms, starting in midseason, maintained peak quality for a long period, almost till frost. *Seed in short supply; order early.* ② **A**=0.25g, 80¢ (~110 seeds), **B**=1g, $2.00. *Not available in size C.*

Weight equivalents

1 gram =	.035 oz	
2 grams =	.070 oz	
3 grams =	.106 oz	
4 grams =	.141 oz	
7 grams =	.247 oz	
10 grams =	.355 oz	
14 grams =	.494 oz	
15 grams =	.528 oz	
20 grams =	.710 oz	
28 grams =	.987 oz	
100 grams =	3.53 oz	or .220 lb
112 grams =	3.95 oz	or .247 lb
225 grams =	7.93 oz	or .496 lb
340 grams =	11.99 oz	or .750 lb

"I hate the metric system—this once great country (USA) was built by the inch, foot and pound!" Paul Unglaub, Lebanon, ME

BACHELOR'S BUTTON *Centaurea cyanus*

For single-blessedness. Easy to grow, great for cutflowers and beds. Common name may refer to the tight unopened buds' resemblance to buttons or to their popularity as boutonnieres. Also known as Cornflower and, formerly, Hurt-Sickle because its wiry stems dulled many a sickle during mowing time. Start in warm place 2 months before setting out or direct seed in May in a sunny location. Make a succession planting in mid-late June if you desire late summer blooms. Will self-sow. Lasts longer than most flowers after frost. Gained top xeriscape rating from Garden Centers of Colorado, meaning the species is highly resistant to drought. Cut when flowers are just beginning to open—they'll open more in the vase. Thomas Jefferson cultivated Bachelor's Button around 1786. 3'. About 210 seeds/g.

5051BB Blue Boy Showy blue. ③ **A**=1g, 80¢ (~210 seeds), **B**=28g, $2.00, **C**=112g, $5.00, **D**=1lb, $12.00

5052BO Blue Boy OG CCOF-certified. ③ **A**=1g, 90¢, **B**=28g, $4.00, **C**=112g, $9.00, **D**=1lb, $30.00

5053FR Frosty Mix Dark centers featuring maroons and purples fade into white outer petals, creating a frosted effect. Bloomed four weeks after a May 2 transplanting at Loon Song Farm. ② **A**=1g, 80¢ (~210 seeds), **B**=7g, $2.00, **C**=28g, $6.00, **D**=112g, $14.00

5055BG Black Gem or **Garnet** Ruffled dark maroon. Dates from Buist's 1942 catalog. Hard to find. ② **A**=0.25g, $1.00 (~55 seeds), **B**=1g, $2.00, **C**=4g, $5.00, **D**=12g, $10.00

5056RB Red Boy Deep red. Dates from 1942. ② **A**=1g, 80¢ (~210 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=1lb, $36.00

5060BM Mix Blend of blue, pink, red, white flowers with blue predominating. Very showy. *Cannot ship to Alaska.* ③ **A**=1g, 80¢ (~210 seeds), **B**=28g, $2.00, **C**=112g, $5.00, **D**=1lb, $12.00

5066CB Double Camellia Mix Balsam *Impatiens balsamina* For impatience. Balsam reigned supreme during the Victorian era when it was called Lady Slippers but has been neglected for almost a century. Vick's in 1895 averred "no plant will give more in return for the care bestowed upon it and none is more frequently neglected," recommending spacing at least 1' apart, aiming for a wide diameter at the base and a pyramid shape covered with flowers. A different school of thought suggests pinching off the side branches and the first flowers to encourage a profusion of blooms near the top of the plant and give the effect of a ready-made bouquet. Both agree that wide spacing is important to make the most of Balsam's novel show of abundant pink, rose and white rosettes along the axils up its stems**.** Direct seed after danger of frost. Don't cover the seed. One of my favorites; very underrated. 2'. ② **A**=1g, 80¢ (~120 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (120 seeds/g)

5068BK Basketflower *Centaurea americana* Outstanding fluffy pinkish lavender "ostrich plume" flowers bloom all summer, attracting butterflies. Sometimes called "thornless thistle," these 4-5" blossoms open in the morning and close at midday to a woven basket form. As a cutflower they have a 3-day vase life, providing special interest as they continue to open and close. Soak seeds overnight and direct seed. 3-4'. ② **A**=0.5g, 90¢ (~35 seeds), **B**=1.5g, $2.20, **C**=6g, $5.00 (70 seeds/g)

5070NB Nonstop Tuberous Begonia *Begonia tuberhybrida* F-1 hybrid. A boisterous mix of flamboyant color to awaken your garden! Nine shades, from pink to fiery red, apricot to golden orange, plus yellow and white, create a riot of color in a shady garden border or in hanging pots. Europe's #1 windowbox plant sports showy 3½-4½" fully double blooms on vigorous basal-branching stems. Thuja Gardens' lovely display outside their main lodge in Northeast Harbor, ME, inspired us to list begonias. They like shade, moist rich soil, will tolerate a bit of sun. Start indoors, set out after all danger of frost. Needs 75° to germinate; takes 2-3 weeks. Blooms 140 days after sowing. Pelleted seed. Packed by seed count, not weight. ③ **A**=10 seeds, $1.80, **B**=50 seeds, $6.00

CALENDULA *C. officinalis*

Old kitchen garden flower, 18-20" tall, also known as Pot Marigold. Beautiful orange and yellow semi-double flowers, good for cutflower arrangements, also edible. Blossoms can be snipped from their stems, dried and added to soups, salads and stews. They are also used in homoeopathic remedies and herbal tinctures and ointments for their antiseptic and soothing qulaities. Calendulas have an extremely long blooming period, thriving in cool weather and being one of the last flowers to succumb to fall frosts. Can be direct seeded in May or started indoors in cool place for early blooms. Readily self-sows. Don't crowd, give them full sun. Deadhead to keep blooms coming and make the patch more attractive or try succession plantings.

5075AM Arrancio Marrone *Not available in 2004.* We recommend #**5086** Red Heart.

Flashback A mix of apricot and peachy doubled petals, all with red backing to create a distinctive contrast. Colors fade to bicolor yellows or yellow-peach, adding interest as the plants mature.

5078FB Flashback ECO ① **A**=1g, 80¢ (~150 seeds), **B**=4g, $2.00, **C**=12g, $5.00 (150 seeds/g)

5079FO Flashback OG OT-certified. ① **A**=1g, $1.00, **B**=4g, $2.20, **C**=12g, $5.50

5080KM Kablouna Mix Distinct refined form with a neat crested center not showing the eye. One of the most neglected and loveliest of the calendulas. "Kablouna," our seed room goddess who looks after the good fortune of all seed packers, was named for this cultivar. ② **A**=1g, 80¢ (~140 seeds), **B**=4g, $2.00, **C**=12g, $5.00, **D**=1oz, $8.00 (140 seeds/g)

5083LB Lemon Beauty Really yellow, only yellow, mellow yellow. Our first all-yellow Calendula. A classic double with lovely soft petals. Bloomed Aug. 1 from a June 13 sowing. Was still blooming at Loon Song Farm on Oct. 19. ③ **A**=1g, 80¢ (~150 seeds), **B**=3g, $2.00, **C**=9g, $5.00, **D**=1oz, $12.00 (150 seeds/g)

5085PO Pacific Beauty Mix OG The classic lovely yellow and orange mix. Herbalists highly regard its healing gifts. CCOF- and ID-certified. ①③ **A**=2g, 80¢ (~300 seeds), **B**=14g, $2.50, **C**=56g, $6.00, **D**=1lb, $28.00 (150 seeds/g)

5086RH Red Heart Maroon-red centers and petal backs give the vibrant orange petals a heart-warming red glow. Filled with petals and very decorative. ② **NEW! A**=1g, 80¢ (~150 seeds), **B**=4g, $2.00, **C**=12g, $5.00, **D**=48g, $12.00 (150 seeds/g)

5087RO Resina OG The best calendula for making tinctures and oils and the one grown by Deb Soule at Avena Botanicals. Our grower reports that its medium-sized single blooms with small eye are extremely resinous. The resins impart a pleasant odor. Blossoms are primarily bright yellow with yellow centers although a few will be orange with light orange centers. Plants grow knee-high. Cheery flowers, good medicine. Blooms in 70 days. MOFGA-certified. ① **NEW! A**=1g, 90¢ (~70 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=64g, $18.00 (70 seeds/g)

5088TR Touch of Red Mix Deep mahogany red in centers, on petal backs and edges creates pleasing contrast with the tan petals. Excellent for cutflowers. Tends to fade quickly after heavy rains, but gorgeous during fall dry spells. ② **A**=1g, $1.20 (~200 seeds), **B**=3g, $3.00, **C**=9g, $7.00 (200 seeds/g)

5089ZO Zeolights OG Pinky-maroon backing shows through the yellow petals to lend a pink tinge to the familiar calendula-yellow. Dark centers accentuate the color contrast. Another Frank Morton original. OT-certified. ① **NEW! A**=1g, $1.00 (~150 seeds), **B**=4g, $2.50, **C**=12g, $7.00, **D**=1oz, $12.00 (150 seeds/g)

5092CS Calliopsis Mix *Coreopsis tinctoria* For vanity. Low-maintenance rugged flower brings a splash of fall color into your garden. Petals brushed in yellow, mahogany and red surround mahogany centers. Large cosmos-like flowers atop 2½' erect stems flourish in full sun and make excellent cuts. Good for such less cultivated areas as open spaces, roadsides and borders because it competes well with grasses and reseeds easily. Tolerant to drought. ②③ **A**=0.3g, 80¢ (~220 seeds), **B**=0.9g, $2.00, **C**=4.5g, $5.00 (720 seeds/g)

5094CC Canary Creeper *Tropaeolum peregrinum* A climbing relative of the nasturtium. Profuse vines can climb 8', providing golden-yellow flowers late in the season. Grows in shade but prefers full sun. ② **A**=1g, 80¢ (~15 seeds), **B**=7g, $2.50, **C**=28g, $6.00, **D**=112g, $20.00 (15 seeds/g)

CANDYTUFT *Iberis spp.*

For indifference. Excellent for borders and cutflowers. Candia, an old name for Crete, and Iberis show its Mediterranean origins. Direct seed in late spring.

5097FM Tall Mix *I. umbellata* I like white candytuft but I admit that it can get monotonous. Here's the antidote, a mixture of vibrant colors from pink to dark purple with a few whites included for contrast. Nikos and Donna think this mix outshines the Pinnacle. I'll make room for both. Grows 18-24". ③ **NEW! A**=0.5g, 80¢ (~210 seeds), **B**=5g, $2.00, **C**=25g, $5.00 (425 seeds/g)

5098CT White Pinnacle Candytuft *Iberis odorata* Enjoy its show of fragrant white blossoms with small green buttons in the center. 20". ② **A**=0.5g, 80¢, **B**=5g, $2.00, **C**=15g, $5.00 (380 seeds/g)

"Temptation is the seed catalog in January." —Ralph Waldo Emerson

5105CE Kiwi Blue Cerinthe *C. major* var. *purpurescens* Little-known vigorous bushy annual 12-30" really comes into focus when the cooler nights of late summer and early fall accentuate its colors. Coin-shaped grey-green foliage covers the sprawling stems. Profuse blue shrimp-like bracts bear terminal purple flowers that look like comfrey blossoms. Tolerates heat, but likes cool weather and will withstand light fall frosts, looking best when others are fading. Would be good in a massed border. Thanks to Hillary Nelson in New Hampshire who offered Cerinthe in her seed exchange and piqued my curiosity with her vivid description. Direct seed or start indoors 6-8 weeks before setting out after danger of frost is past. Quick emerging and rugged. ② **A**=0.6g, $1.50 (~9 seeds), **B**=2.4g, $5.00 (15 seeds/g)

5107CB Chick-a-Biddy *Asarina scandens* This old-fashioned climber is making a comeback. Fresh green small-leaved foliage and masses of 1¼" lavender or dark purple trumpet-shaped flowers can rapidly fill a 4' trellis. Sow early for quick blooms which will continue in flushes until frost. Its self-twining habit makes it ideal for topiary. Also does well in hanging baskets or climbing from the ground. Surface sow or barely cover after danger of frost is past. ② **A**=0.01g, $2.00 (~40 seeds), **B**=0.04g, $6.00 (4,000 seeds/g)

CHINESE FORGET-ME-NOT
Cynoglossom amabile

Also known as Hound's Tongue. Dainty star-shaped flowers bloom throughout the summer. Very floriferous with three blooms per cluster and a half dozen clusters per plant. Start indoors six weeks before the last frost or direct seed outdoors in spring. Germinates in 5-10 days at 65-70 degrees F. Space plants 9" apart. Prefer full sun.

5110CY Firmament No other flower can match the brightness of these tiny 5-petaled azure blue blossoms. For comparable color and texture grow with Blue Cloud larkspur. Try alongside calendula or godetia for color contrast. 16-18". 6,800 seeds/oz. ③ **A**=1g, 80¢ (~185 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (185 seeds/g)

5111MR Mystery Rose No mystery why we like this one. It absolutely captivated market flower grower Heidi Cooperstein in the trials. After a long search Nikos tracked it to the Netherlands. Attractive sprays of smoky-pink flowers appear about 70 days after transplanting. 1994 Fleuroselect Quality winner. 2½' ② **A**=0.2g, 90¢ (~45 seeds), **B**=0.8g, $2.00, **C**=3.2g, $5.00 (225 seeds/g)

5121CL Clarkia Mix *C. unguiculata* Also known as Rocky Mountain Garland. A native of the American west where it was observed during the Lewis & Clark expedition and given its name. A standout in our flower beds, always one of the first to bloom, often lasting a long time, especially in cool summers like 2000. Bears double flowers of pink, red and white along 2' erect stems. Closely related to Godetia, but much less likely to lodge. Makes a wonderful border. Can be direct seeded, but we recommend starting indoors and transplanting after danger of frost for earlier and more enduring blooms. Won't flower when night temperatures drop below 50˚. Clarkia doesn't like heat so keep it mulched and moist during high summer. ③ **A**=1g, 80¢ (~3,500 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (3,500 seeds/g)

CLEOME *C. hasslerana*

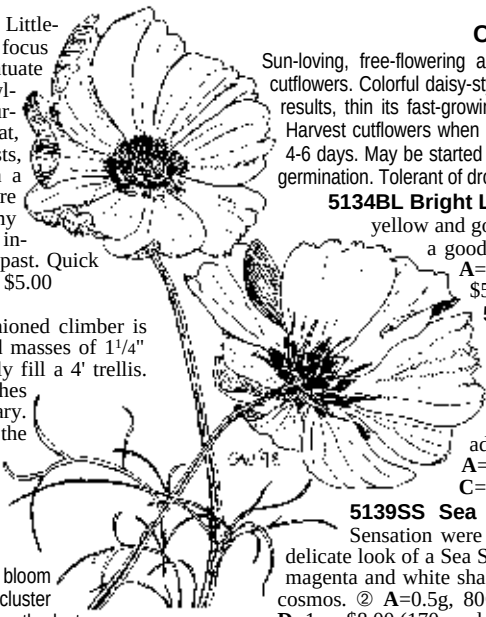
The old-fashioned spider flower sets large open flower clusters with very long stamens atop 4' stalks. For better germination, prechill seeds in refrigerator. Do not cover seed. Blooms throughout the summer and likes the hot and dry conditions of midsummer. 800 seeds/g.

5123WQ White Queen ②③ **A**=0.5g, 80¢ (~400 seeds), **B**=2g, $2.00, **C**=10g, $5.00, **D**=50g, $14.00

5126RQ Rose Queen ② **A**=0.5g, 80¢ (~400 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $15.00

5129VQ Violet Queen Gorgeous in August. ② **A**=0.5g, 80¢ (~400 seeds), **B**=2g, $2.00, **C**=8g, $5.00, **D**=32g, $12.00

5131WI Wizard Coleus *Solenostemon scutellarioides* formerly *Coleus blumei* We had to capitalize on the resurgence of interest in wizards inspired by Harry Potter. This wizard is resplendent in a kaleidoscope of colors: rose and ivory edged in green, deep velvet burgundy centered with flame, bronzed pink, scarlet…12 in all. The colors are even stronger when Wizard is planted in proximity to shade. Germinate at 65˚. Do not cover. Takes 12 days. Do not overwater; subject to damping off. Easy to grow and maintain. Just pinch off any late-season flower stalks. Great in window boxes, planters and interior landscapes, grows 10-12". ⑤ **A**=0.02g, $2.00 (~70 seeds), **B**=0.1g, $6.00 (3,500 seeds/g)



COSMOS spp.

Sun-loving, free-flowering all summer, can serve as an accent, screen or cutflowers. Colorful daisy-style flowers bloom amidst lacy cut foliage. For best results, thin its fast-growing large plants. Deadhead for persistent blooms. Harvest cutflowers when petals on first flower are just opening. Vase life is 4-6 days. May be started indoors or direct seeded after last frost. Light aids germination. Tolerant of drought. 140 seeds/g except where noted.

5134BL Bright Lights Mix *C. sulphureus* A bright mixture of yellow and gold shades reaching 3'. Not frost hardy. Makes a good background to #**2186** Bull's Blood Beet. ② **A**=1g, 80¢ (~140 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $10.00

5136PI Picotee *C. bipinnatus* A unique bicolor cosmos for the aficionado. Flowers vary in hue from white to pink to rose, with each serrated petal edged in contrasting magenta. Bright golden centers. Plants grow 4' climaxed by blooms 2½-3" across. A nice addition to your cosmos bouquet. ② **A**=0.5g, 80¢ (~60 seeds), **B**=3g, $2.00, **C**=15g, $5.00, **D**=1oz, $9.00 (120 seeds/g).

5139SS Sea Shells *C. b.* If each petal on an Early Sensation were to curl into a tube, they'd have the striking delicate look of a Sea Shells. 3' plants come in the usual mix of pink, magenta and white shades, each with a yellow button eye. A lovely cosmos. ② **A**=0.5g, 80¢ (~85 seeds), **B**=3g, $2.00, **C**=12g, $5.00, **D**=1oz, $8.00 (170 seeds/g)

Sensation Mix *C. b.* So named because its early maturity created a sensation when it first came out in 1930. Won AAS 6 years later. Largest flowered cosmos variety needs little tending. Will flower 10 weeks after direct seeding and withstand the first mild frosts of fall. Pinks, roses, purples and occasional whites. 4-5'. Our most popular flower.

5140SM Sensation Mix ② **A**=1.4g, 80¢ (~195 seeds), **B**=14g, $2.20, **C**=56g, $6.00, **D**=1lb, $22.00

5141NO Sensation Mix OG CCOF-certified. ③ **A**=1g, 80¢, **B**=7g, $2.00, **C**=28g, $5.00, **D**=112g, $14.00

5142FI Figaro Dahlia *D.* x *hybrida* Named for Swedish botanist Andreas Dahl. Early and compact, with a wide range of flower forms, including single, semi-double and double blooms. Colors include red, rose, mauve, violet, orange, salmon, yellow and white. Dahlia is sensitive to day length. If sown in March or April needs to be shaded for 10 hours/day during the first four weeks after emergence. Transplant after frost. 10". ⑤ **A**=0.4g, $2.00 (~40 seeds), **B**=2g, $6.00 (100 seeds/g)

DIANTHUS spp.

For perseverance. Years ago a nurserywoman told me, "I've never met a Dianthus I didn't like." I concurred at the time and it's still true. The name Dianthus comes from the Greek meaning "divine flowers." Some are commonly known as Pinks, not for their color, but for their serrated petal tips which look like they've been pinked. See also perennials #6196 Maiden Pink and #6306 Sweet William.

5143CH Chianti Dianthus *D. chinensis* As a bold chianti is to a spicy tomato sauce, so is this Chianti to your cottage garden beds. Though lacking in bouquet, it would make an elegant addition to any dinner table bouquet with its striking burgundy color edged with white lace ruffles. An eye-catcher in our trials with its sharp color contrast and double form. 12". ② **A**=0.4g, 80¢ (~200 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (500 seeds/g)

5144CP Double Mix China Pink *D. c.* Divine Flower well fits the clustered, double dainty fringed blooms in white, salmon-pink and crimson. Deserves to be more widely grown. Start indoors in cool place 6-8 weeks before setting out. Likes cool weather. Avoid heavy nitrogen fertilizers. Height 14-20". ② **A**=0.5g, 80¢ (~400 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (800 seeds/g).

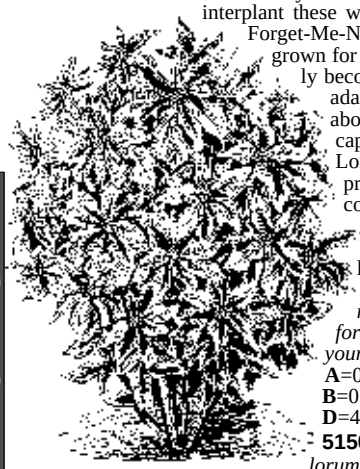
5145RL Rainbow Loveliness Mix *D.* x *hybrida* As Stéphane Mallarmé put it, "Without charm there can be no fine literature, as there can be no perfect flower without fragrance." Rainbow Loveliness has the fragrance—glorious, heavenly, sinfully delicious, intoxicating—and the good looks. The lilac white, which we trialed, sports deeply fringed white blooms with hints of pink at the tip and a greenish center eye, creating a wispy feathery effect. The mix also includes strains of carmine, pink and bicolors. Blooms late July from early June transplanting. 14". ② **A**=0.02g, $2.00 (~20 seeds), **B**=0.1g, $6.00 (1,000 seeds/g)

5146RG Reisen Giant Superb Mix *D. caryophyllus* My Holy Grail is to search for the kind of exquisitely scented flowers that one reads about in the old horticultural lore. Reisen provides a scentsational steppingstone in my pursuit. The 20" plants produce fully double fringed carnations in an array of colors (red, violet, rose, white and bicolor) with corresponding differences in fragrance. The perfumed clove scent of the red is the most tantalizing. ② **A**=0.2g, 90¢ (~100 seeds), **B**=1g, $2.00, **C**=3g, $5.00 (500 seeds/g)

5147CN Dwarf Fragrance Mix Carnation *D. c.* Also known as Clove Pink. Notable for outstanding fragrance, they come in a wide range of colors including crimson, rose, pink and white. Their stiff stems help make them a good cutflower. Remove lateral buds to produce larger flower on top. Start indoors 8 weeks before setting out after danger of frost is past. 12-14". ② **A**=0.3g, $1.00 (~150 seeds), **B**=1.5g, $2.50, **C**=6g, $7.00 (500 seeds/g)

5148DI Lacy Blue Didiscus *Trachymene coerulea* Also known as Blue Lace Flower, introduced from Australia in 1828. Looks like a light blue version of Queen Anne's Lace. Airy flower heads on 2' stems floating like a blue mist above attractive finely-cut foliage are excellent for cutting. Start indoors or direct seed after danger of frost. Transplant 8" apart. Likes full sun. ② **A**=0.25g, 80¢ (~90 seeds), **B**=1g, $2.00, **C**=3g, $5.00, **D**=15g, $12.00 (360 seeds/g)

5149KJ Kilimanjaro Euphorbia *Euphorbia marginata* Also known as Snow-on-the-Mountain. Get ready for a euphorbic color sensation when you interplant these with bright flowers such as Chinese Forget-Me-Not or Venidium. A foliage plant grown for its ovoid green leaves which quickly become outlined in striking white. Well adapted to poor or average soils; grew about 2' in my dry raised beds but capable of reaching a foot taller. Long-lasting in a vase where it provides valuable filler with good color base. Attracted much attention at our Common Ground Fair booth. Will self-sow; we enjoyed a lovely specimen which volunteered next to our broccoli. *Caution: The milky sap may cause itching or rash for sensitive individuals. Do not rub your eyes after handling Euphorbia.* ③ **A**=0.3g, $1.00 (~18 seeds), **B**=0.9g, $2.50, **C**=4.5g, $7.00, **D**=45g, $50.00 (60 seeds/g)



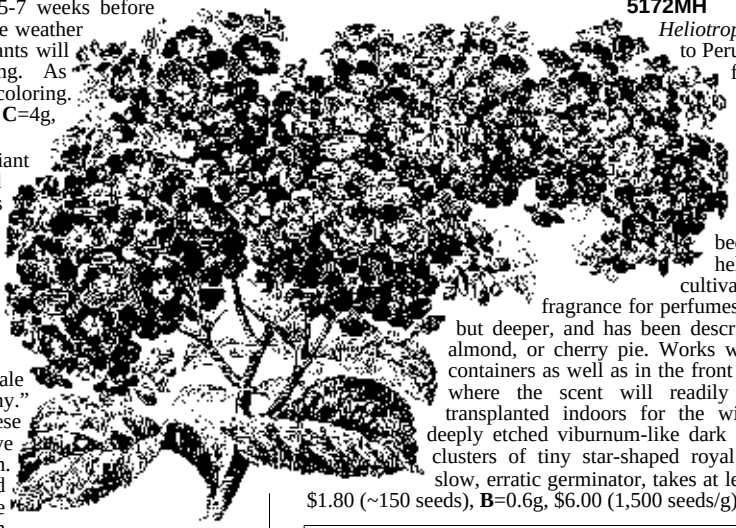
5150SF Scarlet Flax *Linum grandiflorum* 'Rubrum' Five-petalled blooms up to 1½" across on bushy 1' plants. Bright red flowers with a silky sheen. For best effect grow a generous mass. Direct seed as soon as ground can be worked. Do not transplant. ③ **A**=1g, 80¢ (~300 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (300 seeds/g).

FLOWERING CABBAGE & KALE *Brassica oleracea*

Sometimes used for garnishes or in salad mixes. 350 seeds/g. Garden writer Graham Rice says, "Opinions are divided on the ornamental cabbages and kales…I think they're positively outrageous—pink and white cabbages! But every now and then I grow a few because they give me a good laugh at a time of year when it's especially welcome."

5156FC Flowering Cabbage Mix Good ornamental for our climate. The colors—green outer leaves and pink, white or purple centers—deepen at the onset of chilly autumnal nights. Start indoors 5-7 weeks before setting out in midsummer for fall maturity. While weather is still hot, sidedress with manure so that the plants will make rapid growth before nights begin cooling. As autumn approaches, withhold nitrogen to speed coloring. 10". ② **A**=0.25g, 80¢ (~80 seeds), **B**=1g, $2.00, **C**=4g, $5.00 (320 seeds/g)

5157CQ Coral Queen F-1 hybrid. Large luxuriant flowering kales with deeply notched feathered leaves start coloring purple as soon as the nights cool in August. Leaf tips are green with a lavender background and bright purple veins. Large purple centers are supported by thick sturdy stems of moderate height. Give these beauties plenty of space. ⑤ **NEW! A**=0.1g, $1.00 (~36 seeds), **B**=0.3g, $2.50, **C**=0.9g, $6.00 (360 seeds/g)



5158RC Red Chidori F-1 hybrid. Flowering kale is called *Ha-Botan* in Japan, meaning "leafy peony." The Japanese are world leaders in hybridizing these ornamentals and, in Red Chidori, they have brought their work to its ultimate expression. Chidori had the brightest purple outer leaves and the sharpest red centers of any we tried. These colors reach their zenith shortly after frost when other garden hues are fading. Red Chidori leaves have finely ruffled edges which further accent their beauty. ⑤ **A**=0.2g, $2.00 (~70 seeds), **B**=1g, $6.00

516OKA Osaka Mix F-1 hybrid. A mix of red, pink and white compact kales with wavy-edged leaves, providing color contrasts for accent or pattern plantings. ⑤ **BACK! A**=0.5g, 80¢ (~250 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (500 seeds/g)

5161RP Red Peacock F-1 hybrid. Unusual flowering kale with an open plant habit and large lacinated leaves. Can grow enormous (1½' high and 2' wide), looking a little like a brightened version of Red Russian Kale on steroids! ⑤ **A**=0.2g, $2.00 (~70 seeds), **B**=1g, $6.00

5163VP Victoria Pigeon F-1 hybrid. Compact leaf-type cabbages ideal for pot production. Uniform solid rosettes with slightly waved variegated leaves, green with white veins near the fringes, becoming white with green edges toward the center and culminating in a mauve-pink center. Develop best color with frost. These dwarfs make fine ornamentals or chef's garnishes and have a long vase life. ⑤ **NEW! A**=0.1g, $1.20 (~36 seeds), **B**=0.3g, $3.00, **C**=0.9g, $7.00 (360 seeds/g)

5165FC Tall Mix Four O'Clock *Mirabilis jalapa* Also known as Marvel of Peru. For timidity, although the plant is anything but. Breck's in 1885 called it "a very desirable plant where there is plenty of room," and suggests each specimen should stand singly 3' apart. The fragrant trumpet-shaped flowers open in late afternoon, reaching peak glowing loveliness at dusk. The 2-3' plants make good background or annual hedge. Start indoors, transplant out when warm weather has settled in. Likes full sun. Will self-sow in warmer areas. Drought-tolerant. ② **A**=3g, 80¢ (~50 seeds), **B**=9g, $2.00, **C**=27g, $5.00, **D**=135g, $12.00 (18 seeds/g)

GAZANIA spp.

Named for Theodore of Gaza, a medieval translator of botanical works. Easy to grow and excellent as low border plants. Bright daisy-like flowers tend to close in shade, cloudy weather or cool temperatures so gazanias will be most pleasing planted in full sun. Do not overwater. 500 seeds/g.

5166CH Chansonette *G. splendens* Early blooming compact plants exhibit an array of clear bright colors including pink, orange, bronze, white and yellow. ⑤ **A**=0.2g, $2.20 (~100 seeds), **B**=0.8g, $8.00

5167DY Daybreak Mix *G. rigens* A very early mix of brilliant Gazanias which includes two Fleuroselect Gold Medal winners, Red Stripe, a bright yellow with red stripes that gives the effect of a sunrise, and Bright Orange. Other shades include Garden Sun, Bronze, Bright Yellow Improved, pink and white. Red Stripe really stood out in my trial. Compact 8-10" plants. ⑤ **A**=0.05g, $1.80 (~25 seeds), **B**=0.25g, $6.00

5171GD Dwarf Double Azalea Mix Godetia *Clarkia amoena* Also known as Farewell to Spring. Frilly delicate double and semi-double blooms on 16" stems in pastel shades of pink, red, rose and lilac stand out in bouquets. Direct seed in early May. Light aids germination. Wonderful in borders, benefits from taller flowers in the background to form contrast, give support. Makes a good cutflower for local sales but has poor shipability. Harvest when the first flowers on the stem are open. Lasts 5-10 days in the vase. ② **A**=0.7g, 80¢ (~2,200 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (3,100 seeds/g)

5172MH Marine Heliotrope *Heliotropium arborescens* Native to Peru, an old-fashioned scented flower with a rich history. It is "to be sown in the Spring, a delicious flower…the smell rewards the care," wrote Thomas Jefferson. The aroma fills the garden on a cool damp day. Victorian-era rose beds were often edged with heliotrope and it is still cultivated in Europe as a fragrance for perfumes. Smells like sweet violet, but deeper, and has been described as similar to vanilla, almond, or cherry pie. Works well in hanging baskets or containers as well as in the front of borders or any location where the scent will readily reach you. It may be transplanted indoors for the winter. 14-18" plants with deeply etched viburnum-like dark green leaves bear big flat clusters of tiny star-shaped royal blue flowers. Somewhat slow, erratic germinator, takes at least 2-3 weeks. ② **A**=0.1g, $1.80 (~150 seeds), **B**=0.6g, $6.00 (1,500 seeds/g)

Hints for Cutting Flowers

- Deadhead spent blooms frequently to keep seedpods from forming.
- Cut flowers in early morning when stems are tight with water taken up overnight. Avoid cutting flowers in the heat of day.
- Pick newly-opened blossoms. Unpollinated fresh flowers have a longer vase life.
- Cut stems several inches longer than you'll think you'll need.
- Make a clean cut with sharp scissors or knife.
- Carry a bucket of lukewarm water to the garden with you. Place stems directly into the bucket as you cut them.
- Allow your bucket to rest in a cool, dark place for several hours before arranging your bouquet.
- Strip any foliage that will be below water line in the vase.
- Recut stems under lukewarm water, then transfer immediately to a lukewarm water-filled vase.
- Change water frequently to prolong life. Recut flower stems a small amount every few days.
- Keep finished bouquets out of drafts and direct sunlight.

IMPATIENS spp.

Our best-known bedding plant, named for the way its seeds pop explosively out of their ripe pods. Pinch spent blooms before they get to that point for best display. Start indoors, need light so surface sow, 70-80˚, takes 14 days to germinate, provide even moisture, do not overfeed, set out after danger of frost.

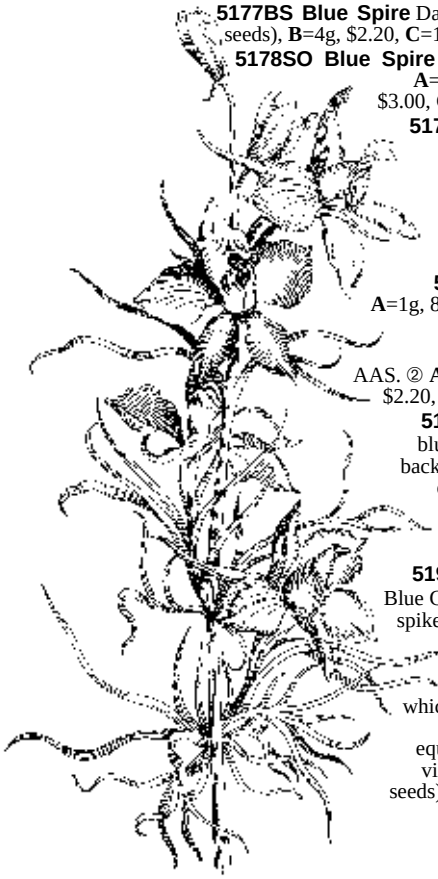
5174JN Java Orange New Guinea Impatiens *I. hawkeri* Until recently, the best New Guinea Impatiens were started from cuttings, but no longer! Java comes true to type with 2" bright orange open flowers on a small shrub-like 14" plant, providing a clear burst of color for the types of sunny sites where traditional impatiens would droop. Great also as container plants. Perennials best treated as annuals, New Guinea Impatiens can be brought inside at summer's end to spread their cheer through winter's drear. ⑤ **A**=0.02g, $2.00 (~12 seeds), **B**=0.08g, $6.00 (600 seeds/g)

5175SE Super Elfin Pastel Mix *I. wallerana* Freely branching 8-10" plants covered with masses of pastel colors: blue pearl, pink with a rose eye, salmon with a coral eye, white, coral, pink and salmon. Impatiens are the nation's #1 bedding plant because they do so well in shade and require so little care. ⑤ **A**=0.03g, $2.00 (~55 seeds), **B**=0.15g, $8.00 (1,800 seeds/g)

5176KO Kiss-Me-over-the-Garden-Gate OG *Polygonum orientale* Though the Latin name is more sonorous, the common name conveys a certain charm which suits the plant. It is easy to imagine an amorous meeting amongst the shelter of these 6-7' annuals, surrounded by large tassels of lightly-scented pink blossoms and heart-shaped leaves! Our answer to the customer who gave us the best advice we've ever received: "Breathe and laugh a lot. Kiss someone pretty." Although transplanting temporarily sets it back, it grows vigorously to take up a full square yard at maximum size. It blooms from July to frost. In 2001 it regrouped to resume blooming even after being flattened by an early snow. Sometimes self-sows. Start indoors in a warm place, covering the seed. Fussy, slow, erratic germinator. Offered by Burpee in 1935 for 15¢ per packet as Ruby Gem. MOFGA-certified. ① **A**=1g, $1.10 (~120 seeds), **B**=3g, $2.50, **C**=12g, $7.00

LARKSPUR *Consolida ajacis,* also *Delphinium consolida*

We offer the Giant Imperial series, 3'. Long flower spikes are used as cutflowers or in dried arrangements. Delphinium-like flowers on upright long-stemmed plants. Cut when one third of the flowers on the stem are open. Likes cool moist conditions. Very slow to give in to fall frosts. May be direct seeded in early spring or started indoors and set out in 8 weeks. Does not germinate well in warm temperatures. Refrigerating for a week will improve germination. All types about 330 seeds/g except where noted.



5177BS Blue Spire Dark blue. ② **A**=1g, 80¢ (~330 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $20.00

5178SO Blue Spire OG NOFA VT-certified. ① **A**=1g, $1.20 (~330 seeds), **B**=4g, $3.00, **C**=16g, $9.00, **D**=80g, $32.00

5179CR Carmine ② **A**=1g, 80¢ (~330 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=64g, $20.00

5182LK Lilac King ② **A**=1g, 80¢ (~330 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $20.00

5186PP Pink Perfection ② **A**=1g, 80¢ (~330 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $20.00

5190WS White Spire 1937 AAS. ② **A**=1g, 80¢ (~330 seeds), **B**=4g, $2.20, **C**=16g, $5.50, **D**=80g, $20.00

5194MX Mixed Pinks, purples, blues and white make a beautiful background, good for cutting. Less double than usual this year. ③ **A**=1g, 80¢ (~280 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=4oz, $24.00 (280 seeds/g)

5198BC Blue Cloud *C. regalis* Blue Cloud doesn't shoot up a single spike like most larkspurs. Instead it sends flocks of bushy 5-petaled rich blue ½" florets on wispy foliage which, *en masse*, give the effect of clouds. Its tiny seed pods are equally decorative. Will self-sow vigorously. ② **A**=0.1g, 80¢ (~80 seeds), **B**=0.5g, $2.00, **C**=5g, $5.00, **D**=50g, $15.00 (800 seeds/g)

LAVATERA *L. trimestris*

Newcomers to my garden frequently ask for the identity of this flower so they can grow it the following year. Every stalk is covered with single funnel-shaped blossoms. Start indoors 8 wks before setting out, or direct seed in sunny spot. Cut when flowers are unfurling or have just begun to bloom. Vase life is one week. Will survive light fall frosts. Also known as Herb Treemallow; botanical name honors the 16th century Swiss naturalist brothers Lavater, and the three-month bloom time in warmer climes. 150 seeds/g.

5202LM Mix More than 80% pink shades (some light and some dark) and the remainder white. An explosion of exotic blooms on 2' tall bushy plants great for borders. Lasts in bouquets after most others have shrivelled. ③ **A**=1g, 80¢ (~150 seeds), **B**=4g, $2.00, **C**=16g, $5.00, **D**=64g, $12.00

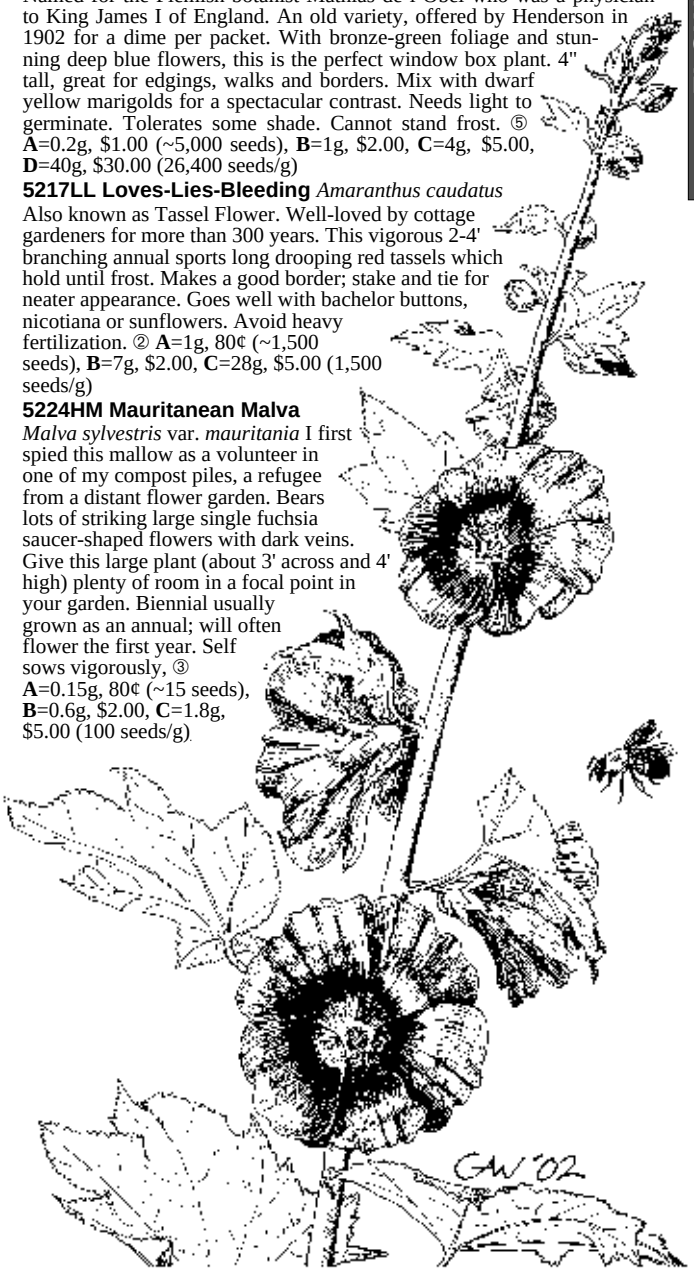
5206MB Mont Blanc Slightly dwarf (20") hybrid with white blossoms. Fleuroselect medal winner. Too short for commercial cutting, but nice in borders. Impressed a lot of people at the SARE orchard garden at MOFGA's fairgrounds. ② **A**=0.5g, 80¢ (~75 seeds), **B**=2g, $2.00, **C**=6g, $5.00, **D**=30g, $12.00

5210TG Tanagra Extra-large deep rose flowers with lighter veining borne on robust 3' plants. ② **A**=1g, 80¢ (~150 seeds), **B**=4g, $2.00, **C**=12g, $5.00, **D**=60g, $12.00

5215CP Crystal Palace Blue Lobelia *L. erinus* For malevolence. Named for the Flemish botanist Mathias de l'Obel who was a physician to King James I of England. An old variety, offered by Henderson in 1902 for a dime per packet. With bronze-green foliage and stunning deep blue flowers, this is the perfect window box plant. 4" tall, great for edgings, walks and borders. Mix with dwarf yellow marigolds for a spectacular contrast. Needs light to germinate. Tolerates some shade. Cannot stand frost. ⑤ **A**=0.2g, $1.00 (~5,000 seeds), **B**=1g, $2.00, **C**=4g, $5.00, **D**=40g, $30.00 (26,400 seeds/g)

5217LL Loves-Lies-Bleeding *Amaranthus caudatus* Also known as Tassel Flower. Well-loved by cottage gardeners for more than 300 years. This vigorous 2-4' branching annual sports long drooping red tassels which hold until frost. Makes a good border; stake and tie for neater appearance. Goes well with bachelor buttons, nicotiana or sunflowers. Avoid heavy fertilization. ② **A**=1g, 80¢ (~1,500 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (1,500 seeds/g)

5224HM Mauritanean Malva *Malva sylvestris* var. *mauritania* I first spied this mallow as a volunteer in one of my compost piles, a refugee from a distant flower garden. Bears lots of striking large single fuchsia saucer-shaped flowers with dark veins. Give this large plant (about 3' across and 4' high) plenty of room in a focal point in your garden. Biennial usually grown as an annual; will often flower the first year. Self sows vigorously, ③ **A**=0.15g, 80¢ (~15 seeds), **B**=0.6g, $2.00, **C**=1.8g, $5.00 (100 seeds/g)



Why don't you folks offer _____ ? (please fill in the blank)
Can't find your favorite variety? Please send us your suggestions. If possible, please identify your past source for the varieties.

MARIGOLD *Tagetes* spp.

"We do not consider a flower garden complete without the good old-fashioned French and African marigolds." (Breck's, 1885) For cruelty, jealousy and grief. Good for bedding, in planters, or low borders. Grown in Brazil 400 years ago, said to have been sacred to the Aztecs. In 1939 Burpee's Red and Gold hybrid was the first hybrid flower from seed offered commercially in the United States. Sow after soil has warmed, or inside in a warm (75-80°) spot, 3 weeks before setting out after danger of frost. Likes full sun. Tolerant to drought. About 300 seeds/g. except where noted.

5228AF Aurora Yellow Fire *T. patula* This French beauty lights our fires with bright yellow flowers inset with red flames. Extra early with numerous large flowers, consistently double from the first bloom to the last. The compact neat rounded 8-10" plants bear flat-petaled 2½" blooms. Not day-length sensitive. ⑤ **A**=0.25g, $1.50 (~75 seeds), **B**=1g, $4.00, **C**=4g, $12.00 (375 seeds/g)

5231BR Brocade Mix French Dwarf Double *T. p.* Abundant color on neat, compact 10" plants. Ruffled flowers in rust, yellow, orange, red & bicolors. ② **A**=0.5g, 80¢ (~130 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (260 seeds/g)

5232HQ Harlequin *T. p.* Ever since Harlequin wowed us in Nikos' first year in charge of the trials, she had been unable to locate seed. In the interim we tried many surrogates, but all proved to be clowns without costumes, putting forth luxuriant foliage with almost no blossoms. Harlequin is floriferous, even in our cool northern summers. An antique variety going back at least to the early 1800s, Harlequin sports stunning single maroon and yellow radially striped pinwheel flowers that bloom in about 85 days on 1' plants. Send in the clowns! ③ **NEW! A**=0.25g, 90¢ (~90 seeds), **B**=1g, $2.00, **C**=5g, $5.00, **D**=20g, $16.00 (360 seeds/g)

5233QS Queen Sophia French Dwarf Double *T. p.* Award-winning anemone-flowered dwarf. Each plant produces many bicolored blooms. Flowers are deep orange rust and, as they mature, petals are edged with gold. Named for Queen Sophia of Spain. 10-12". ② **A**=0.7g, $1.80 (~225 seeds), **B**=3.5g, $6.00

5235SP Sparky Mix French Dwarf Double *T. p.* Combines yellow, gold, orange and red blooms on free flowering compact 10-12" plants. Flowers are 2-2½" wide with smoother petals than Brocade. ②③ **A**=1g, 80¢ (~300 seeds), **B**=7g, $2.00, **C**=28g, $5.00

5236TO Tashkent Marigold OG *Tagetes patula* These pretty singles are very floriferous, especially as first frost approaches. Long blooming period begins early July. Each blossom has eight deep maroon-red petals with frilly edges and strong yellow centers. 12-14". Produced by Avalon Dyrek at Loon Song Farm. *Seed in short supply; order early.* MOFGA-certified. ① **A**=1g, $1.00. *Not available in larger sizes.*

5237TR Troubadour Yellow French Dwarf Double *T. p.* These brilliant glowing yellow flowers begin blooming in July and never stop till frost as long as you keep deadheading. Bears fully double flowers right from the start, unlike most other early-blooming dwarf doubles. Free-flowering 2" blooms on 10" plants. ⑤ **A**=0.3g, $1.00 (~90 seeds), **B**=0.9g, $2.00, **C**=4.5g, $5.00

5243LG Lemon Gem *T. tenuifolia pumila* Compact 10-12" plant bears tiny bright lemon-yellow flowers early, through summer, into fall. Blooms are edible with lemony scent. Chinese Forget-Me-Not makes a great background plant to the Gems. Signet marigolds, once known as Mexican marigolds, date back to 1798. ⑤ **A**=0.5g, 80¢ (~600 seeds), **B**=1.5g, $2.00, **C**=6g, $5.00, **D**=24g, $12.00 (1,200 seeds/g)

5246GM Ornament Gem *T. t. p.* We regret crop failure. *Not available in 2004.*

5249TG Tangerine Gem *T. t. p.* As above, but the tiny fragrant flowers are deep orange. They make colorful tasty additions to salads. If you cut them, they'll keep coming. Watering in dry spells also helps. ⑤ **A**=0.5g, 80¢ (~600 seeds), **B**=1.5g, $2.00, **C**=6g, $5.00, **D**=24g, $12.00 (1,200 seeds/g)

5250FL First Lady African Semi-Dwarf Double *T. erecta* Voted the all-time favorite AAS flower. A lovely 20" border or hedge plant, covered with sunny yellow double carnation-like flowers 3½" across which keep coming till frost. ⑤ **A**=0.1g, $2.00 (~35 seeds), **B**=1g, $8.00 (350 seeds/g)

5253SC Sweet Cream African Semi-Dwarf Double *T. e.* Actually resembles the sweet creamy farm milk of yore—outstanding off-white color for a marigold. Profuse large (3-4") double blooms on 18" stocky plants until frost. Use for cutting or keep deadheaded to maintain Sweet Cream's classy good looks. ⑤ **A**=0.05g, $2.00 (~15 seeds), **B**=0.2g, $6.00 (317 seeds/g)

5254CR Tall African Crackerjack Mix *T. e.* A tall (30") carnation-flowered type. Early mix of orange, gold, yellow. Large, fully doubled flowers rarely need staking. ② **A**=1g, 80¢ (~320 seeds), **B**=14g, $2.00, **C**=56g, $5.00, **D**=224g, $15.00 (320 seeds/g)

5263MN Mignonette *Reseda odorata* For moral and intellectual worth. "Mignonette should not be forgotten, on account of its delicious odor." (Breck's 1885) Once fashionable on the balconies of Paris, popular enough to command 7 listings in the 1935 Burpee catalog, it has seemingly lost its cachet. However, a revived interest in scent could reverse the trend, for Mignonette is among the most fragrant. Its insignificant yellow-green blossoms send the haunting scent of raspberries wafting through the air and attract bees. Less than a foot high, it can be grown in pots and moved for best effect; however its scent will fade if it is removed from full-day sun. Direct seed, do not cover. Make succession plantings for continuous blooms. Prefers fertile well-drained soil and cool weather. Burpee claimed a light sandy soil brings out its most pronounced perfume. ②③ **A**=1g, 80¢ (~900 seeds), **B**=4g, $2.00, **C**=16g, $5.00 (900 seeds/g)

MOON LILY *Datura inoxia*

Also known as Angel's Trumpet or Tolguaca. For deceitful charms.This close relative of Jimson Weed is poisonous. Never ingest any part of it! Will be a real conversation piece in your garden. Prickly pods are useful in dried arrangements. Poor germinator; disturb the seedbed in your flats daily to stimulate sprouting. 80 seeds/g.

5265ML Moon Lily Of spectacular beauty, growing 3' tall and spreading with huge 6" white trumpets of indescribable ambrosial fragrance which open at night. ② **A**=0.25g, $2.00 (~20 seeds), **B**=2g, $6.00

5267VL Violet ECO Perfumy night-blooming trumpets similar to Moon Lily but smaller plant, about 2½', with smaller single purple flowers and more subtle refreshing but not sweet fragrance. Glowing violet color like moonlight at dusk. Seed originally from J. L. Hudson, grown by Jill de Bethune in Maine. ① **A**=0.5g, $2.00 (~20 seeds), **B**=2g, $6.00

MORNING GLORY *Ipomoea* spp.

For bonds, attachment. Easily grown climber with trumpet-shaped flowers provides color and shade. Decorates fence or post. Plant with NE to SE exposure for best results. Nick seeds with a file and soak overnight to speed germination. Germinates in 2 weeks at 75-80° F. Sow outdoors after danger of frost or indoors in jiffy pots as they resent transplanting. Overly rich soil will yield excess foliage and sparse blooms.

5271FS Flying Saucers *I. nil* This is the floral version of ET, the blooms like pods from another world. Actually Sputnik had been in space only three years, and the lunar landing was still yet to come when seedsman Darold Decker created these gaudy 4" open trumpets. A bicolor morning glory, featuring clear white cups streaked with sky blue. The swirly blue patterns create the ethereal saucer effect that inspired its name. Can be brought inside in the bud stage for a week-long show as the amazing blossoms unfurl their patterns. Climber grows 8-10'. ② **A**=1.5g, 80¢ (~45 seeds), **B**=6g, $2.00, **C**=18g, $5.00, **D**=90g, $15.00 (30 seeds/g)

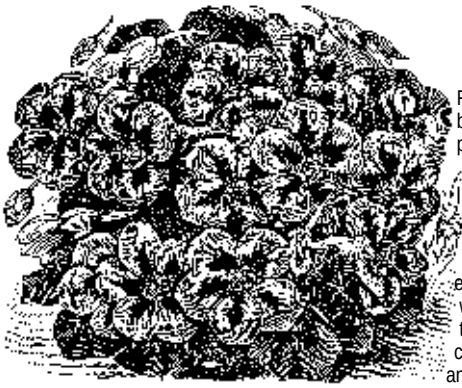
Clarke's Heavenly Blue *I. tricolor* Old favorite predates 1911. Intense blue lightens toward center; a sun-loving vine. 12'.

5272HB Clarke's Heavenly Blue ② **A**=3.5g, 80¢ (~80 seeds), **B**=14g, $2.00, **C**=56g, $5.00, **D**=1lb, $16.00 (24 seeds/g)

5273HO Clarke's Heavenly Blue OG CCOF-certified. ③ **A**=3.5g, $1.00, **B**=14g, $4.00, **C**=56g, $14.00

5275KO Kniola's Purple OG *I. purpurea* Beautiful glowing rich deep purple flowers vibrate against lush green foliage. Unlike Heavenly Blue or most other morning glories, Kniola's starts blooming while it is only 2' tall and still vining. As the vines continue to climb to 8-9', the blooms also continue, lasting the entire season. The deep blooms have a magenta star that radiates out from their pale pink-white throats. An heirloom discovered by a Mr. Kniola at an abandoned farm in Indiana. Nicholas Lindholm acquired seed from famous seedsman J. L. Hudson in 1993, thence passed it on to Roberta Bailey who has been maintaining it and culling out the magenta off-types. MOFGA-certified. *Seed in short supply, order early. Available in size A only.* ① **A**=0.25g, $2.00 (~10 seeds) (40 seeds/g)

5277SH Scarlett O'Hara *I. nil* Very large wine-red flowers on 10' vines. 1939 AAS. ② **A**=3.5g, 80¢ (~80 seeds), **B**=14g, $2.00, **C**=56g, $5.00, **D**=224g, $12.00 (24 seeds/g)



NASTURTIUM
Tropaeolum majus

For patriotism, to honor the brave. Edible flowers lend a peppery-sweet taste to salads, with each color adding contrast and subtle variations in flavor. Blooms keep coming if cut. Round leaves also edible. Formerly used as a remedy against scurvy. Needs warmth to germinate, but cool temperatures outdoors for continuous blooming. Intolerant of frost. Avoid excess nitrogen, but don't relegate nasties to the worst soil. Like full sun. Start indoors or direct seed after last frost. 6-8 seeds/g. all types.

5280AL Alaska Mix Striking variegated green and white foliage will make a formidable bush if you feed it heavily. But go easy on the nitrogen if you want to eat lots of its tangy yellow and orange blossoms. A great plant for hanging baskets. 16". ② **A**=2g, 80¢ (~16 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=1lb, $30.00

5282EI Empress of India Hailed as a "great novelty" when introduced in 1884, and still popular today. Dark purplish-green stems and leaves make a perfect background for the brilliant crimson-scarlet flowers which stand out in bold relief. Spicy hot flowers live up to the promise of the plants' lovely olive toning. A good contrast with other varieties in your nasturtium patch. Do not feed heavily. 16" plants. ② **A**=3g, $1.00 (~22 seeds), **B**=9g, $2.50, **C**=27g, $7.00, **D**=1lb, $30.00

Jewel Mix Bushy variety holds bloom above foliage. Early free-flowering blend of colors. Blooms 6 weeks after sowing and continues until frost. 16".

5288JM Jewel Mix ③**A**=4g, 80¢ (~25 seeds), **B**=16g, $2.00, **C**=64g, $5.00, **D**=1lb, $18.00

5289JO Jewel Mix OG CCOF-certified. ③ **A**=4g, $1.00 (~25 seeds), **B**=12g, $2.50, **C**=48g, $7.00, **D**=1lb, $36.00

5290PM Peach Melba *T. minus* Recommended by Eva Sommaripa and other growers who treasure its unique delicacy. Primrose-cream blossoms with pearly red centers look like miniature cut peaches. Sets its abundant blooms above the compact lily-pad foliage. Seed is expensive but worth it. ② **A**=1g, $1.50 (~8 seeds), **B**=4g, $5.00, **C**=16g, $15.00 (225 seeds/oz)

5292WB Whirlybird 7-Color Blend *T. minus* Has large spurless upward-facing flowers borne above the foliage. Compact non-trailing plant habit. Recommended for commercial growers. 12" plants. ② **A**=2g, 80¢ (~12 seeds), **B**=6g, $2.00, **C**=24g, $5.00, **D**=1lb, $30.00

5296TC Tall Climbing Mix Tall trailing mix to 2' in red, orange, gold and exquisite bicolor shades. Each different colored blossom has its own distinctive taste. Plants will spread but having no tendrils cannot, strictly speaking, climb. The most prolific blossom set of any of the nasturtiums we have tried. *Field reports of poor germination in lot 251 were confirmed by our summer germination test. If you had low germination last season, please request a free replacement packet with your order.* ③ **A**=4g, 80¢ (~25 seeds), **B**=28g, $2.00, **C**=84g, $5.00, **D**=1lb, $18.00

5300LN Only the Lonely Nicotiana *N. sylvestris* Arrived in cultivation from Argentina in 1899. Also known as Woodland Tobacco, featuring clusters of drooping tubular white blossoms which perfume the garden day and night. In dwarfing nicotiana, breeders took away its fabulous fragrance. Only the Lonely, at a stately 5', is gangly but delivers the full powerful fragrance its more compact cousins lack. You might want to plant it near a door or under your bedroom window where you can enjoy the smell during the night. ② **A**=0.2g, $2.00 (~640 seeds), **B**=1g, $8.00 (32,000 seeds/g)

5303SG Royale Mix Painted Tongue *Salpiglossis sinuata* For political distinction. At last more of our customers are discovering that this exquisite beauty belies its unappealing names. These extremely floriferous 15-20" plants produce masses of elegant 3" trumpet flowers in a broad range of colors from chocolate, red, purple and yellow to purple-orange and pale blue bicolors. Germinates in 15 days at 70˚ F. Likes long days, lots of light and cool nighttime temperatures (50˚F) to grow on. ④ **A**=0.01g, $2.00 (~42 seeds), **B**=0.05g, $6.00 (4,200 seeds/g)

PANSY *Viola* x *wittrockiana*

Burpee's in 1888 called the pansy "the most popular of all flowers grown from seed," and sold more than 100,000 packets per year. James Vick's Sons sold 27 different kinds and mixtures in 1895. For thoughts, remembrance, from the French pensée. Old-fashioned bedding plant thrives in cool moist conditions. Start 2 months prior to planting in a cool (60-65˚) place. Cover seed to germinate. Takes about 12 days. Grow on in very cool temperatures—preferably below 50˚. Likes partial sun.

5304CH Chalon Evocative of Victorian aesthetics, Chalon does *not* display the familiar flat "faces" we've come to expect on our pansies. Rather, it offers a rich tapestry of solid color on frilly 2-3" picotee flowers. 'Picotee' refers to the lighter edge around the petals which is extremely fetching. The result is a charming illusion of doubled flowers. Luxuriant colors range from mahogany to violet to yellow. 6-8" plants. ④ **A**=0.1g, $2.00 (~80 seeds),

5305JJ Jolly Joker All-America winner. Also lacks the usual "face," its vibrant color combination of orange and purple will make you take notice. One of the hardiest pansies, as well as one of the slowest to "stretch." 8". ③ **A**=0.1g, $2.00 (~70 seeds), **B**=0.5g, $6.00 (700 seeds/g)

5306SG Swiss Giant Regular Mix Blotched flowers in a wide range of colors, with best color in cool of spring, 6" plants good for bedding or borders. Not recommended for commercial growers. ② **A**=0.1g, 90¢ (~70 seeds), **B**=1g, $2.00, **C**=4g, $5.00 (700 seeds/g)

PETUNIA *P.* x *hybrida*

Your presence soothes me. Start indoors in warm place 8 weeks before setting out after danger of frost. Do not cover seeds; light aids germination. Use loose medium and avoid overwatering. Drought-tolerant sun lovers. To avoid crushed seed in shipment, we pack all pelleted seed in protected vials. All F-1 hybrids. 10,000 seeds/g.

5308DD Daddy Mix Very showy grandiflora has big 4" ruffled blooms in shades of light blue, orchid, peppermint, pink, plum and strawberry with darker veins. Stunning in baskets, these uniform plants also exhibit good weather tolerance when planted in full sun. 12-15". ⑤ **A**=0.03g, $2.20 (~300 seeds), **B**=0.12g, $7.00

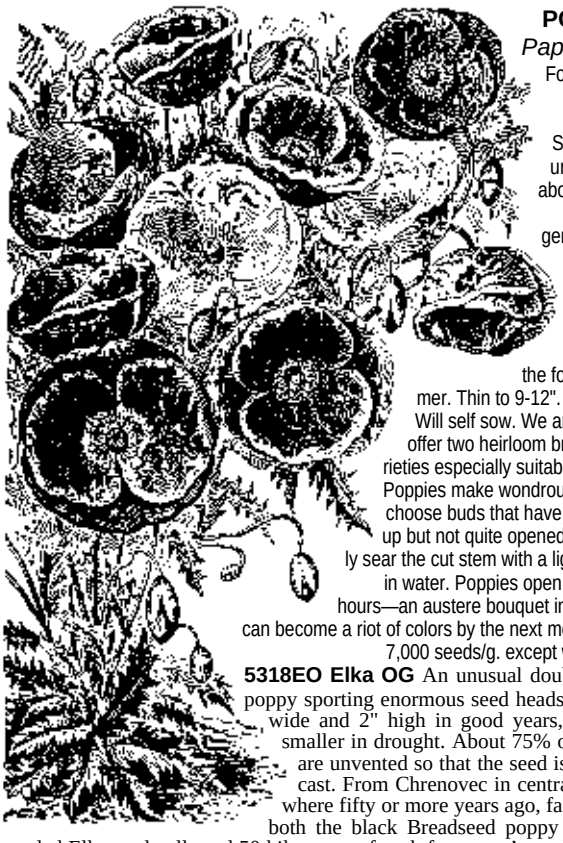
5310PW Pink Wave The Wave has caught on with our customers. We offer the pink, with white throats, to complement the purple and silver. Pelleted seed, packed by count. ⑤ **A**=10 seeds, $2.00, **B**=40 seeds, $7.00

5311PU Purple Wave If you've given up on petunias because they're "wimpy" or require too much fussing, catch a Wave. Each plant carpets the ground with a spread of 4x4' of vivid fuchsia. Wave showed extreme drought tolerance in our trial, sailed through light frost and bounced back after torrential rain. Although never deadheaded or cut back, the 3" flowers just kept coming and coming and coming. If you're looking for one to grow in containers or you need to cover a lot of ground or you just want a beautiful sea of color, try Wave. 1995 AAS. Pelleted seed, packed by count. ⑤ **A**=10 seeds, $2.00, **B**=40 seeds, $7.00

5312TW Tidal Wave Silver Ride the newest wave in town! Despite its name, more a pale purple than silver, with darker purple veining. Spreads as much as 4' in all directions, and 2' high. This versatile landscaping tool can be used as a low hedge, ground cover, or trailing from pots. Plant in full sun in a location where its robust performance and light fragrance can sweep you away. Pelleted seed, packed by count. ⑤ **A**=10 seeds, $2.00, **B**=40 seeds, $7.00

5313PH Drummondii Mix Phlox *P. drummondii* For unanimity. Breck's sold 15 different kinds in 1885. The word phlox signifies "a flame." "A good ribbon bed of phlox is a dazzling sight….Nothing will make so grand a display for so little cost," averred James Vick's Sons catalog in 1896. Phlox is among the most colorful annuals for summer and fall beds, borders or window boxes. Ours is a large-flowered mix of crimson, scarlet, pink, white and salmon with white eyes. Start early indoors or direct sow in spring. Likes moist well-drained soil in full sun. One of the longest lasting in the vase. About the last to succumb to frost. 6-8". ③ **A**=0.4g, 80¢ (~200 seeds), **B**=2g, $2.00, **C**=8g, $5.00 (500 seeds/g)

5316PC Imperial Mix Pincushion Flower *Scabiosa atropurpurea* For unfortunate attachment, was also known as Mourning Bride. Once very fashionable; as late as 1955 Burpee offered 12 kinds and colors. Now a neglected but excellent old-fashioned cutflower. A new common name and different botanical name would help. Hardly anyone even knows what a pincushion is any more, and as for the images conjured by *Scabiosa*, well, never mind. Still, it is one of my favorites; its beauty belies its name. Flowers, perfect 1" mounds of tiny blossoms with a sweet smell, bloom profusely on long wiry stems and last a week in the vase. Harvest when the flowers are almost fully open. Blend of crimson, rose, lavender and white. Grows to 3', or pinch to induce bushiness. Ours thrived in the wet fall of 2003 and continued blooming after several light frosts. ② **A**=0.5g, 80¢ (~40 seeds), **B**=3g, $2.00, **C**=15g, $5.00 (80 seeds/g)



POPPY
Papaver spp.

Forget the past and hope for the future. Sensuous luxurious flowers, about 2½-3' tall. Need light to germinate. Sow outside in spring after frost or sow in fall for early blooms the following summer. Thin to 9-12". Like full sun. Will self sow. We are pleased to offer two heirloom breadseed varieties especially suitable for baking. Poppies make wondrous cutflowers: choose buds that have straightened up but not quite opened. Immediately sear the cut stem with a lighter and put in water. Poppies open after several hours—an austere bouquet in the evening can become a riot of colors by the next morn. All types 7,000 seeds/g. except where noted.

5318EO Elka OG An unusual double-purpose poppy sporting enormous seed heads up to 1½" wide and 2" high in good years, somewhat smaller in drought. About 75% of the heads are unvented so that the seed is not broadcast. From Chrenovec in central Slovakia, where fifty or more years ago, families grew both the black Breadseed poppy and white-seeded Elka, and collected 50 kilograms of each for a year's cooking. When walnuts became widely available in stores, Elka almost completely disappeared. Named in honor of the old woman on a mountainside who is the last one left who continues to grow the variety in her area. Lacks the distinctive flavor of the Breadseed variety but sweeter, with a more nutlike taste, none of the bitterness, and over 50% more oil content, making perhaps the best quality edible oil in central Europe. Plants grow 4' with white-lavender blossoms, like calcium-rich soil, don't transplant well. For best results thin to at least 5-6" apart. Some folks tie a group of plants together for support against wind breakage. Isolate from other poppies by at least 250' if you wish to save seed. MOFGA-certified. ① **A**=0.1g, 80¢ (~700 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00

5320ZO Ziar Breadseed OG Unusual twin to Elka (see #**5318**) bred to eliminate the vents in its large seed head so the blue seeds stay in the heads to be collected. Ornamental single pink to red petals with centers ranging from pale red through dark colors. Although the first batch of seeds had some difficulty adapting to the cold climates of Canada and Maine, Ziar has been selected over the past 20 years for better cold survival. Slovakian variety once a mainstay of the local cuisine. MOFGA-certified. ① **A**=0.1g, 90¢ (~700 seeds), **B**=0.3g, $2.20, **C**=1.2g, $6.00

5322BP Black Peony We'd seen poppies in a lot of different colors, but never one like this fully double ruffled flower of the deepest purple, almost black. Strong tall stems. 2'. ② **A**=0.2g, 80¢ (~420 seeds), **B**=1g, $2.00, **C**=5g, $5.00

5324CP Carnation Rose ECO Ruffled heavily doubled rosy 4-5" blossoms create splashes of color that make a spectacular show, even when viewed from afar. With each plant putting out a succession of blossoms beginning in July, its breathtaking beauty extends through mid-August, though the first blooms are the richest. Foliage is a distinctive glaucous light green. Broadcast seed in spring. Thin for robust plants. A prolific self-sower. Seed grown in Maine. ① **A**=0.2g, 80¢ (~1,400 seeds), **B**=1g, $2.00, **C**=7g, $5.00

5330DF Danish Flag According to legend, the Danish flag came from the sky to King Valdemar II in 1219. The origins of the *Danebrog* or Danish Flag poppy, are more obscure but predate 1888. Flag is named for the white spots at the base of the petals which form a cross in the center of the brilliant scarlet flowers somewhat mimicking the Danish flag. The lush single blooms, more than 4" across with fringed petals, sit atop 27" stems with blue-green foliage. After their showy blooms, the flowers make attractive large seedheads ideal for drying. ② **A**=0.2g, 80¢ (~440 seeds), **B**=1g, $2.00, **C**=7g, $5.00

5332FR Fluffy Ruffles *Not available in 2004.*

5334LO Large Lavender OG Passed along to Jeanne Griffin by a German friend, these tall poppies bloom in July with 2½-3" flowers that have exquisitely shaded and fringed petals. Long blooming period. Large 1" seed pods can be used in dried arrangements. MOFGA-certified. ① **A**=0.2g, 80¢ (~1,400 seeds), **B**=1g, $2.00, **C**=4g, $5.00

Laura From way up north in Aroostook County, ME comes this charming light pink peony poppy. Our grower named it "Laura" because "it is so cheery and friendly-looking, much the same as one of my favorite aunts!" The 2-3' plants bear delightful double blooms which have been a hit at farmers market. The seed heads are great in dried flower arrangements. Sow as soon as the snow melts, don't cover the seed. Expect blooms to begin late July. Will self sow. This passalong plant came from Virginia to the County ten years ago.

5336LR Laura ① **A**=0.2g, 80¢, **B**=1g, $2.00, **C**=5g, $5.00

5337RO Laura OG MOFGA-certified. ① **A**=0.2g, $1.00 (~480 seeds), **B**=1g, $2.50, **C**=5g, $6.00 (2,400 seeds/g)

5346SH Shirley Double Choice Mix Also known as Corn Poppy, was called Ghost or Fairy Poppy early in the century. Elegant semi-double blooms all summer in shades of pink, rose, salmon, scarlet and white. The name Shirley refers to the town in Surry, England, where the Rev. Henry Wilkes originally raised the variety. 2½' tall. ③ **A**=0.7g, 80¢ (~4,900 seeds), **B**=7g, $2.00, **C**=28g, $5.00

15352MB Mission Bells California Poppy *Eschscholzia californica* Do not refuse me. Colorful, semi-double 2-3" orange flowers, occasionally yellow or pink. Excellent for borders, rock gardens, bedding. Likes full sun. Do not transplant. Direct seed in May after soil has begun warming. Make succession plantings for blooms all summer. 2'. ③ **A**=0.5g, 80¢ (~325 seeds), **B**=2g, $2.00, **C**=6g, $5.00, **D**=24g, $12.00 (650 seeds/g)

5356SD Sundial Mix Portulaca *P. grandiflora* Love in a cottage. As Vick's said in 1895, "When everything else is perishing for lack of moisture, the portulaca will give its largest flowers and brightest colors." Sundial is a dramatic improvement on the familiar Moss Rose, exhibiting early blooming of large 2" fully double flowers which stay open longer than other mixes. Provides a vivid array of cream, fuchsia, gold, peppermint, orange, pink, scarlet, white and yellow on succulent low-spreading 6" plants good in hanging planters and most colorful in massed plantings. Excels in droughts, thrives in sandy soil, full sun. Blossoms close in cloudy weather and late afternoons. Easy to grow, blooms 8 weeks from sowing, start in a warm spot, needs light to germinate. ② **A**=0.01g, $1.80 (~85 seeds), **B**=0.05g, $6.00 (10,500 seeds/g)

RUDBECKIA *R. hirta*

Named for Olaf Rudbeck (1660-1740), Professor of Botany at Uppsala in Sweden and a teacher of Linnaeus. Improved versions of these rugged North American natives far outstrip their wild counterparts in size and color. Drought-tolerant. See also perennial #6054.

5358GD Gloriosa Daisy These workhorses have fallen out of favor of late but deserve a place in your garden. Impervious to the hottest sun and the poorest of soils, they reward even the novice with nonstop flowers from late July until fall frosts. Flowers up to 6" on 2-3' stems have the hues of mixed sunflowers: yellow, gold, orange and reddish brown, surrounding chocolate brown centers. They enhance the border and can be brought inside as cuts. Start seeds directly outdoors as soon as the ground can be worked. Space about 1' apart in full sun. ② **A**=2g, 80¢ (~20 seeds), **B**=6g, $2.00, **C**=24g, $5.00, **D**=72g, $14.00 (290 seeds/oz)

5359SB Indian Summer Black-Eyed Susan You won't find any wild Black Eyed Susans that look like 1995 AAS Indian Summer, whose enormous five-petaled golden yellow blooms are 6-9" across. Indian Summer grows up to 3' but branches so that staking is not necessary. Its long straight stems make excellent cutflowers which last more than a week in the vase. Start indoors for early blooms. Will survive light fall frosts and was still going strong into October this year. Bred by Flecke of Germany. ② **A**=0.1g, $1.00 (~140 seeds), **B**=0.3g, $2.20, **C**=2.1g, $6.00, **D**=8.4g, $16.00 (1,400 seeds/g)

5361GS Gentian Sage *Salvia patens* It's hard to say whether magnificent blue blossoms or dynamic flower shape is this salvia's most exciting feature. Clear bright flowers are one shade lighter than cobalt blue. Each flower on the monkshood-like spike has a top petal "hood" that lunges across the pendant lower petals. Nikos and Susan marveled at these 2½' plants at Rockefeller Gardens on Mount Desert Island. Flower spikes 12-15" long, good for cutting. Tender perennial, can be grown as an annual in the North. ② **A**=0.1g, $1.00 (~13 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00, **D**=6g, $12.00 (3,700 seeds/oz)

5363SB Signum Blue Salvia *S. farinacea* For wisdom and energy. If you want masses of true blue in your annual beds, Signum Blue is for you. Brilliant blue blossoms showed deeper color than Blue Bedder in our salvia trials. Compact 12-18" plants with grey-green foliage have long-lasting 6-8" high flower spikes that bloom all at once and last for weeks. Start indoors in a warm place 4-6 weeks before last frost. Do not cover seed. Plant outdoors after danger of frost. Keep fairly dry for best foliage color. ② **A**=0.1g, $1.00 (~9 seeds), **B**=0.3g, $2.50, **C**=0.9g, $7.00 (90 seeds/g)

5365SC Angel Wings Schizanthus *S. pinnatus* For coquetry. Bring a hint of the exotic to your garden by growing this colorful array of delicate orchid-like flowers with pansy faces. Softly complementary shades of pink, violet and rose with contrasting blotched and stippled throats create the effect of an 18" fern covered by rare little butterflies. Bring cut sprays of bloom indoors for a touch of Victorian charm. Also known as Butterfly Flower or Poor Man's Orchid. Do not cover the fine seed, but do cover the flats or pots with a sheet of black plastic because darkness aids germination. Takes 3-4 weeks to germinate. ② **A**=0.2g, 80¢ (~390 seeds), **B**=1g, $2.00, **C**=5g, $5.00 (55,000 seeds/oz)

5369RS Rocket Mix Snapdragon *Antirrhinum majus* F-1 hybrid very popular with commercial growrs. For deception. Its long stems and vibrant colors: pink, red, yellow, orange, white and orchid make Rocket the standard snapdragon for cutting. For local production of cuts, harvest when more than half the flowers are open. Will last 5-8 days. Withstands light fall frosts. Refrigerate seeds 8-10 weeks before setting out, then expose to light to germinate at 65-70˚. ② **A**=0.025g, $2.00 (~165 seeds), **B**=0.125g, $6.00, **C**=0.5g, $20.00 (6,500 seeds/g)

STOCK *Matthiola incana*

For promptness. Old-fashioned bedding plant formerly known as Gilliflower, with multiple spikes of usually double flower clusters. Genus is named for Pierandrea Mattioli, a 16th century Italian botanist, while incana means hoary or light grey, referring to its soft grey leaves. Good in beds, borders and containers. For earlier blooms, sow indoors at 60-65˚ 6 to 8 weeks before setting out after danger of frost. Likes moderately fertile moist well-drained soil, full sun.

5374TW Dwarf Ten Weeks Mix Stock Formula blended. Dwarf plant reaches 12-14". Each produces abundant flowers at their best in the cool of September and tolerant of light fall frosts. Light and dark blue, white, pink and red blossoms for bedding and cutflowers. Harvest flowers when fully open for cuts. Recut stems frequently. Predates 1902. ⑤ **A**=0.4g, 80¢ (~250 seeds), **B**=2g, $2.00, **C**=12g, $5.00 (620 seeds/g)

5377VR Vintage Red Bred for larger flowers and early bloom, Red exhibits an intense rosy shade as well as excellent basal branching yielding many flower spikes. 18" tall. ⑤ **A**=0.1g, $1.80 (~60 seeds), **B**=0.5g, $6.00 (600 seeds/g)

5379SS Starlight Scentsation *M. longipetala bicornis* How to sell stock without a broker's license? Try poetic license. Such an ugly plant must have an evocative name so that gardeners will discover its hidden attributes. 15" Starlight, night-scented stock, is rather gangly with grey-green foliage, looks terrible during the day. But in late afternoon the small pastel pink and purple 4-petaled flowers emerge with a wonderful fragrance. Place carefully in full sun so that it is camouflaged by day and noticed at night. A "must have" for any gardener devoted to scent. About 69 days to bloom. ② **NEW! A**=0.4g, 80¢ (~500 seeds), **B**=2g, $2.00, **C**=12g, $6.00

SUNFLOWER *Helianthus annuus*

Prized for their seeds by humans and birds, and for cutflowers by market growers, sunflowers also add a lighthearted touch to gardens. We found a new use for them in the 1915 Salzer catalog where a correspondent says, "Having tried turf, coal, wood and sunflowers, I have settled upon the last named as the cheapest and best fuel for treeless Dakota. I grow one acre of them every year, and have plenty of fuel for one stove the year round." He neglected to tell us how many cords of stalks that required.

Prechilling seed aids germination. Easy to grow. Start indoors 3-4 weeks before last frost or direct sow after frost, 3 to a pocket. Thin to best plant, 1' or more apart. Rich friable soil yields tallest plants, drought stunts growth. Will readily self-sow; for some fun leave a few volunteers in strategic locations. For cutflowers harvest the stems when the flowers are almost completely open.

5400AB Autumn Beauty Mix Our best-selling sunflower, a 6-8' multibranching beauty. Produces a lovely mixture of earthen shades, petal colors ranging from bright yellow to bronze and purples. Most have a characteristic red ring enclosing a black center. Blossoms 4-6" across are perfect as the center of giant flower arrangements. Has pollen. ② **A**=1g, 80¢ (~45 seeds), **B**=4g, $2.00, **C**=28g, $5.00, **D**=1lb, $28.00 (45 seeds/g)

5401FT Fantasia F-1 hybrid. Walt Disney's Fantasia, released in 1940, was the first full-length animated feature, a cartoon dramatization of eight pieces of classical music. It became popular during the psychedelic sixties. One of the ballets was the Waltz of the Flowers from Tchaikovsky's Nutcracker Suite. Fantasia the sunflower was not in that dance, but easily could have been had it existed at the time. It merits classic status, itself, with its stately 4-5' stalks bearing 4-8" perfectly round pollen-free flowers. It was the best of 16 varieties in CR's grow-out in 2003. He noted a perfect blossom which opened with the month of September and was at its most gorgeous on Sept. 8. It was 5" across, yellow-orange with a striking dark brown center. Actually, Fantasia is a formula blend with colors ranging from white to darkest red, with double and semi-double flowers. Let the lights dim and the fantasy begin. ③ **NEW! A**=0.5g, 80¢ (~11 seeds), **B**=2g, $2.00, **C**=10g, $5.00 (22 seeds/g)

5402FL Florenza In the sunflower trials at Common Ground Fair this year, Florenza caught more than one observer's eye. Stunning brown-centered 6" flowers in maroonish red with yellow tips and a hint of yellow behind the center. Mixes well with other sunflowers in a bouquet; makes the whole display "pop." 3½' tall. ③ **NEW! A**=0.5g, $1.00 (~20 seeds), **B**=2g, $2.50, **C**=8g, $6.00, **D**=24g, $15.00 (40 seeds/g)

5403JK The Joker If you're not playing with a full deck in your sunflower patch, consider adding this Joker, a bi-colored beauty with two rings of petals. An interior short yellow fringe radiates from the brown disk and resembles eyelashes, accentuating the big orangy-maroon outer petals which have yellow tips. Mottled red stalks grow 5-7' with multiple branching. Has no pollen, ideal for cuts. A good deal all around. While you're cutting them, don't forget to cut the deck. ③ **A**=0.5g, $1.00 (~11 seeds), **B**=2g, $2.50, **C**=6g, $7.00, **D**=1oz, $16.00 (23 seeds/g)

5405LQ Lemon Queen Luxuriant 8" blooms with lemon yellow petals surrounding striking solid brown centers. Although it can grow up to 10' tall in rich soil, its powerful stems do not lodge. Likes high fertility; makes shorter stems and narrower petals in average soil. Not early; bloomed for Donna Dyrek in late August. ③ **A**=1g, 80¢ (~45 seeds), **B**=5g, $2.00, **C**=20g, $5.00, **D**=1lb, $25.00 (45 seeds/g)

5409GS Mammoth Grey Stripe A traditional variety of giant (6-12') single-stem sunflower with large seed heads. Beloved by birds and kids. ③ **A**=28g, $1.00 (~250 seeds), **B**=84g, $2.50, **C**=336g, $7.00, **D**=1008g, $20.00 (9 seeds/g).

5410MR Moulin Rouge A favorite among commercial growers. 5-6' multibranching stems topped by gorgeous dark-red pollen-free 5-7" blossoms somewhat short-lived. Burgundy petals become almost black close to the disc. Stems are long enough for cutting. The Moulin Rouge was a night-club in Paris where Toulouse-Lautrec created much of his work, using red-headed beauties as models. This sunflower would make a fine subject for such an exuberant artist. ③ **A**=0.5g, $1.00 (~11 seeds), **B**=2g, $2.50, **C**=10g, $7.00, **D**=40g, $18.00 (23 seeds/g)

5411PR Prado Red Fleuroselect novelty winner. A star performer in Donna Dyrek's trials, specially bred in Holland for the cutflower trade, featuring long, long stems. Brown center disks are surrounded by small rich velvety maroon-red petals which extend the range of sunflower colors. Each 4' multibranching plant bears 15-18 long-lasting flowers that shed pollen sparingly. Plant alongside #**5436** Vanilla Ice for a striking contrast. ⑤ **A**=0.5g, $1.80 (~13 seeds), **B**=2g, $6.00, **C**=1oz, $30.00 (26 seeds/g)

5412PG Prado Gold Fleuroselect quality winner in 1993. Golden yellow twin to Prado Red except Gold's brown center has a green indentation at the bullseye. Like Prado Red, multibranching and early to bloom. Enjoy these in rich-hued bouquets. ⑤ **A**=0.5g, $1.80 (~13 seeds), **B**=2g, $6.00, **C**=1oz, $32.00 (26 seeds/g)

"Just wanted to say that I really appreciate the sample mixes you offer, like heirloom tomatoes, sunflowers, etc."

5416SG Schnittgold Contrast is the watchword for this handsome single-headed 5' sunflower. Its double ring surrounded by deep yellow petals makes a striking display. The center pollen ring is black and flat, surrounded by an auxiliary ring of brown. *Schnitt* means 'cut' in German; the variety makes a superb cutflower. Karen Pratt of Wilmington, VT, points out that Schnittgolds, when mature, get a hollow in the center—perfect for making the sunflower bird wreaths sold in pricey garden catalogs. 8-10" blooms. ③ **A**=1g, 80¢ (~25 seeds), **B**=3g, $2.00, **C**=12g, $6.00, **D**=120g, $30.00 (25 seeds/g)

5421EO Selma Suns Mix OG Trialer Donna Dyrek rates these her favorite sunflowers for their fragrance, beautiful diversity, and plethora of poly-heading 6" blooms. Selma's heads have small dark centers, pointed petals, and display various hues and shades including yellows, golds, maroons and reds. Donna reports that Selma "flowers forever if the squirrels don't rip off the heads." 6-7' tall. MOFGA-certified. ① **A**=1g, 80¢ (~55 seeds), **B**=3g, $2.00, **C**=12g, $5.00. *Not available in size D, order size C.*

5426SY Soraya The first sunflower ever to win an AAS, Soraya impressed the judges with its luminescent deep orange petals, contrasting dark mahogany center disks, and sturdy branching habit. The latter accounts for its astonishing productivity, up to 25 4-6" blooms per plant, borne on stout 20" stems, perfect for cutting. 6' plant spreads 2-3'. Flowers in about 80 days from seed. ③ **A**=0.5g, $1.80 (~30 seeds), **B**=4g, $6.00, **C**=1 oz., $28.00 (60 seeds/g)

5430SD Sungold Dwarf Danish variety much nicer than the original Teddy Bear or any of its imitators. Polyheaded blooms growing on very short stems (the main stalk is only 2') are fully double giving the fuzzy effect. Habit almost like a well-behaved dahlia. Drew much attention and many comments at our sunflower display at Common Ground Fair. Blooms hold well compared to other dwarf types. Has pollen. ③ **A**=1g, 80¢ (~50 seeds), **B**=3g, $2.00, **C**=12g, $5.00, **D**=1lb, $45.00

5432ST Sunspot With Sunspot you can bring the cheer of sunflowers indoors during those long cold winter months. Grow this dwarf 2½' plant in a container in your house! Although its stem is relatively diminutive, its 8" flowers are anything but puny, and look like traditional sunnies—yellow with a dark center. For good growth choose a warm sunny location, indoors or out. You may need to provide some support as Sunspot approaches maturity. ③ **A**=0.25g, 80¢ (~5 seeds), **B**=1g, $2.00, **C**=3g, $5.00, **D**=1lb, $35.00 (20 seeds/g)

5436VI Vanilla Ice *H. debilis* This is the closest we have seen to a white-petaled sunflower. Though their true color is closer to cream or pale yellow than white, the petals make a great contrast to the rich dark disk in the center. Polyheaded and similar to the better-known Italian White, but a superior performer in our trial. One customer suggests interplanting with Heavenly Blue morning glories along a fence. 5' stalks, 3-4" blossoms. ③ **A**=0.2g, 80¢ (~45 seeds), **B**=0.6g, $2.00, **C**=2.4g, $5.00, **D**=24g, $20.00 (225 seeds/g).

5437YT Yellow Thriller Dropped by the trade. *Not available in 2004.*

5439SS Sunflower Sampler For those who wish to get in on the sunflower rage without spending a pile of jing, we'll mix seed for a half dozen or so varieties into one package. Create a lovely display for 80¢. No dwarfs or mammoths. ⑤ **A**=1g, 80¢, **B**=3g, $2.00, **C**=9g, $5.00, **D**=90g, $25.00. *Seed counts vary with varieties chosen.*

SWEET PEA *Lathyrus odoratus*

For departure. Native to Sicily, first domesticated around 1699 when amateur botanist and monk Father Francis Cupani shipped seed for the variety that bears his name to a hothouse grower in England. Painted Lady, a rose- and white-tinted pink, was named in 1737. In the late 1800s extensive breeding work, especially by Henry Eckford, expanded the range of available colors. Around 1900 Silas Cole, gardener to the Earl and Countess Spencer, found a sport with much larger ruffled flowers but less scent than Eckford's varieties. It created a sensation when it was exhibited in 1901. From this variation derive all modern strains including Spencer, Cuthbertson, Knee-Hi and Mammoth.

Sweet peas were once wildly popular. Vick's sold ten tons of mixed sweet pea seed for 40¢ per lb in 1895, Maule offered the "80 best varieties" in 1904.

In response to a revived interest in fragrance, Bodger Seeds Ltd. obtained as many of the pre-Spencer varieties as possible and created a mix called Old Spice in the 1970s. With gardeners again demanding fragrance in individual colors, Bodger has begun to offer the old strains individually and we are continuing to try them. Six major chemical components, none unique to sweet peas, and a dozen less significant ones give sweet peas their fragrance.

Soak seeds for 12-24 hours prior to sowing. For earliest blooms, sow indoors 2 mos. before setting out, or sow direct in spring. Old catalogs recommended sowing in a 4-5" trench and filling in as the peas grew. Likes full sun and moist rich soil. All except Little Sweetheart should be supported. We use #9075 Trellis Plus. About 12 seeds/g. Perennial sweet pea is #6296.

5440AM America An antique striated variety, arresting both to eyes and nostrils. Each blossom contains subtle variations of bright reds with creamy white streakings. Heavily perfumed. Looks lovely next to Cupani. First offered in 1896 by Morse-Vaughan. Vines grow to 3'. ② **A**=2g, 80¢ (~24 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=120g, $14.00 (12 seeds/g)

5441BK Black Knight One of 115 varieties Eckford exhibited at the Crystal Palace in 1900, bred in 1898. Highly-scented deep maroon flowers tolerant of heat. 5-6'. ② **A**=2g, 80¢ (~24 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=4oz, $11.00 (12 seeds/g)

5442CU Cupani Oldest and most fragrant of all sweet peas. Celebrated its 300th birthday in 1998 amidst a surge of revived interest. Named for the Sicilian monk who found these bicolors growing wild, Cupani combines deep maroon-purple upper petals with deep blue lower petals. Grow Cupani for enticing intoxicating aroma. 5' vines. ② **A**=2g, 80¢ (~18 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=4oz, $12.00 (12 seeds/g)

5443LS Little Sweetheart Mix Sweetheart is the most dwarf of all sweet peas, with bushes growing only 8-12". Produces its best blooms in cool fall weather. Bright color range of red, pink, white, rose, lilac and blue. ②⑤ **A**=4g, 80¢ (~48 seeds), **B**=12g, $2.00, **C**=48g, $5.00, **D**=4oz, $10.00 (12 seeds/g)

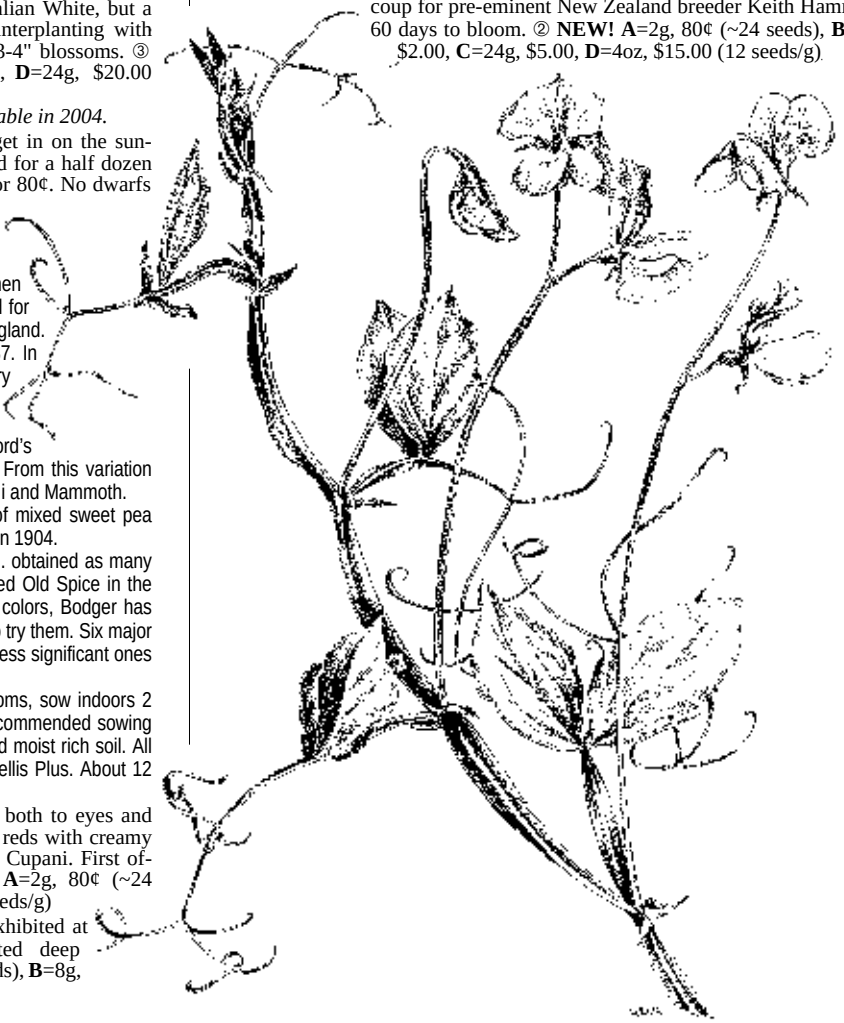
5448KH Knee High Mix Semi-dwarf 20" bush-type plants need no support, produce full-length stems. ③ **A**=7g, 80¢ (~78 seeds), **B**=28g, $2.00, **C**=84g, $5.00, **D**=1lb, $18.00 (11 seeds/g)

5454MM Mammoth Mix 4-6' staking variety. The best tall mix in our many gorgeous trials. Though temporarily slowed by heat waves, revives during each cool spell and never stops blooming from July to September. Long stems make ideal cutflowers. Mixture of crimson, scarlet, white, lavender, deep rose, medium blue and pink. The purples and reds are the most fragrant. ⑤ **A**=7g, 80¢ (~85 seeds), **B**=21g, $2.00, **C**=63g, $5.00, **D**=1lb, $22.00 (12 seeds/g)

5455MC Mrs. Collier At last a white sweet pea with real fragrance! We thank Marilyn Barlow of Select Seeds in Union, CT, for bringing it to our attention. The heavenly blooms lasted and exuded way more scent than the whites in the Mammoth mix despite a hot August. Introduced in 1907 by Dobbie & Company. 5-6'. ② **A**=2g, 80¢ (~24 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=4oz, $10.00 (12 seeds/g)

5457PD Perfume Delight We're always seeking sweet peas with more fragrance, and Perfume Delight delivers. Vines to 3' require staking. Slow bloomers with medium-long stems in a mixture of colors. Fill your gardens and rooms with perfume! ⑤ **A**=4g, 80¢ (~24 seeds), **B**=12g, $2.00, **C**=48g, $5.00, **D**=1lb, $24.00 (6 seeds/g)

5458MS Mixed Streamers Relentless, our sweet pea trialer, is passionate about the genus: he grows them, he trials them, he breeds them. So, when a sweet pea stands out for him, it really stands out. At over 5' tall with abundant fragrance, these Streamers really rocked. Known in the trade as "flakes" for the boldly streaked white patterns rippling on a mix of colors—blue, lavender, pink, purple, chocolate, orange, and scarlet—these flakes aren't the usual chip off the old rock. Along with its good stems, huge blossoms and excellent longevity as a cut flower, they make this 2002 introduction a real coup for pre-eminent New Zealand breeder Keith Hammett. 60 days to bloom. ② **NEW! A**=2g, 80¢ (~24 seeds), **B**=8g, $2.00, **C**=24g, $5.00, **D**=4oz, $15.00 (12 seeds/g)



TITHONIA *T. rotundifolia*

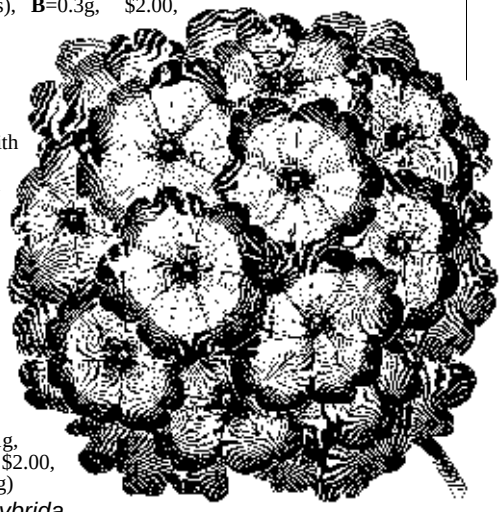
Also known as Mexican Sunflower. Attract butterflies with these tall floriferous beauties. The dressy blooms often exceed 4" across and continue over a long season. Heat-loving plant closely related to the Zinnia. Sow outdoors after danger of frost in warm soil, or start indoors 6 weeks before last frost date. Tithonia sulks in the cold so don't bring it out too soon.

5459GF Goldfinger 4' tall with bright orange 3-4" blooms. Upright and uniform habit, but more dwarf than Torch. Lloyd and Rice call it "horrible" and "short-jointed," but they must have put it in wimpy soil. Maybe they just saw too many James Bond movies! It *is* shorter than Torch, but has charm. ②③ **A**=0.2g, 80¢ (~20 seeds), **B**=0.6g, $2.00, **C**=1.8g, $5.00 (100 seeds/g).

5460TH Torch Stately 6' plants with velvety dark green leaves bear scarlet-orange 4-5" blooms which hummingbirds find extremely attractive. My fondness for this showy flower is shared by our customers who purchased over 800 packets in each of the last two years. 1951 AAS. ② **A**=0.2g, 80¢ (~20 seeds), **B**=0.6g, $2.00, **C**=7.2g, $5.00, **D**=28.8g, $12.00 (100 seeds/g)

5461ZP Zulu Prince Venidium *V. fastuosum* Also known as Namaqualand Daisy or Monarch of the Veldt. (Namaqualand is in southwest Africa.) Daisy-like flowers with attractive contrasts close up in dreary weather, but will open in ten minutes if cut and brought indoors. Christopher Lloyd says their large center disks "shine black like a healthy dog's nose." Glorious creamy-white 4" flowers have vivid black centers. With multi-branching habit and deep-cut fuzzy leaves, Venidium sprawls 2½' and needs a dry sunny location to remain upright. Intolerant of wet feet, keels over when saturated. Start indoors, transplant out after danger of frost. Keep dead-headed for long bloom production. Space at least 2' apart. 900 seeds/g.② **A**=0.1g, 90¢ (~90 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00

5463PV Purple Top Verbena *V. bonariensis* I fell in love with this free-flowering verbena at first glance. Don't confuse it with the hybrid dwarf bedding plant (which is available at #**5464-65**). Proud strong 3-4' stems almost without leaves covered with vibrant purple flowers which thrive in heat and bloom from July to October. Makes an ideal cutflower and mingles beautifully with other tall border plants. Attracts butterflies. Extremely drought-resistant. ② **A**=0.1g, 90¢ (~400 seeds), **B**=0.4g, $2.00, **C**=2g, $5.00 (4,000 seeds/g)

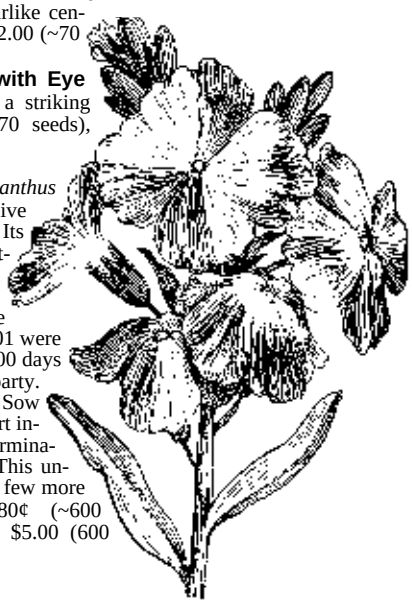


VERBENA *V.* x *hybrida*

For sensibility. Starry flower clusters cover this 6-10" free-flowering bedding plant whose long-lasting blooms make a vibrant border. Chill seeds 5-7 days in refrigerator before sowing. Start indoors, transplant after danger of frost. Tolerates drought. 350 seeds/g.

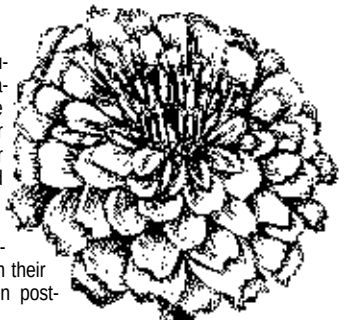
5464NB Novalis Deep Blue with Eye Purple blooms with white starlike centers. 1989 AAS. ③ **A**=0.2g, $2.00 (~70 seeds), **B**=1g, $6.00

5465NS Novalis Scarlet with Eye Interplant with the blue for a striking border. ③ **A**=0.2g, $2.00 (~70 seeds), **B**=1g, $6.00



5467WF Wallflower *Cheiranthus allionii* Somebody better give this flower a new name. Its charming perfumey profuse little spice-scented 4-petaled orange blossoms are anything but shy. These blossoms like cool moist climates and in 2001 were still going strong more than 100 days after their July 8 coming-out party. Biennial, blooms first year. Sow outdoors in early spring or start indoors and transplant out. Germination takes 7-20 days. 9-12". This underappreciated flower needs a few more dancing partners.③ **A**=1g, 80¢ (~600 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (600 seeds/g)

ZINNIA *Z. elegans*



Thoughts of absent friends. These showy annuals were named for 18th century German botany professor Johann Gottfried Zinn. One of the easiest to grow from seed, and a favorite for bright color in Maine summers. Zinnia flower essence is used to bring out playfulness and lightheartedness. Cut when flowers are fully mature. Deadhead to continue production. Sow in a sunny spot after last frost, or start indoors for earlier blooms. Growing for Market in their Sept, 2003 issue had an excellent article on post-harvest treatment of zinnias for cutflowers.

5468BP Blue Point Formula Mix Also known as Benary's Giant Mix. A most elegant giant dahlia-flowered zinnia. The densely petaled fully double flowers regularly exceed 4" across, showy yet extremely refined, borne on long stems perfect for cutting. Highlighted by the uniform petal patterns, colors are particularly bright from yellow, orange and white to scarlet, rose-pink and magenta. Will hold better than most even under the stress of high heat and rainfall and be absolutely breathtaking in ideal conditions. 3-3½' plants. The zinnia of choice for market growers; on a par with State Fair Mix for home gardeners. Highly recommended by Lynn Byczynski in *The Flower Farmer* and a favorite with our customers who have made it #2 in sales among all our flower varieties. ③ **A**=0.5g, $1.00 (~50 seeds), **B**=1.5g, $2.00, **C**=9g, $5.00, **D**=45g, $20.00 (100 seeds/g)

5470CJ Cactus Bright Jewel Mix Large ruffled blossoms resemble chrysanthemums. Profuse immense blooms in scarlet, orange, pink, yellow. Full sun. 3'. ② **A**=1g, 80¢ (~110 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=4oz, $10.00 (110 seeds/g)

5474GM Gold Medal Mix A formula blend of cherry, orange, pink, purple, scarlet, white and yellow dahlia-flowered blossoms 4-5" across excellent for cutting. Flowers are flat-petaled, semi-double on 3½' plants. Bred by Bodger. ② **A**=1g, 80¢ (~105 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=4oz, $10.00 (105 seeds/g)

5478PC Persian Carpet *Z. haageana* These variegated fully double and semi-double 2" flowers borne on 1' stalks hold a long time. They have maroon centers, with white, yellow or gold on the outside. This Mexican Zinnia is smaller and less gaudy than our other zinnias and very pleasing in bouquets. 1952 AAS. ② **A**=0.5g, 80¢ (~385 seeds), **B**=5g, $2.00, **C**=20g, $5.00 (770 seeds/g)

5482PM Pumila Mix (Cut & Come Again) Small 2' plants with flowers 2½-3" across. Wide range of colors includes orange, yellow, white, pink, lavender and scarlet. ②③ **A**=1g, 80¢ (~175 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=4oz, $10.00 (175 seeds/g)

5484RF Ruffles Mix Zinnia F-1 hybrid. Bred for bouquets. Flat-petaled, double to semi-double flowers on long stems. Free blooming, respond to frequent cutting. Yellow, scarlet, pink and cherry blooms. Form an elegant hedge 24-30". Very refined. ② **A**=0.15g, $2.00 (~15 seeds), **B**=0.6g, $6.00, **C**=6g, $40.00 (105 seeds/g)

5487FL Scarlet Flame Even Gene, who doesn't like gaudy zinnias, was attracted to Scarlet Flame's elegant bright scarlet blooms. 3' stems. Predates 1934. ② **A**=1g, 80¢ (~110 seeds), **B**=7g, $2.00, **C**=28g, $6.00, **D**=4oz, $18.00 (110 seeds/g)

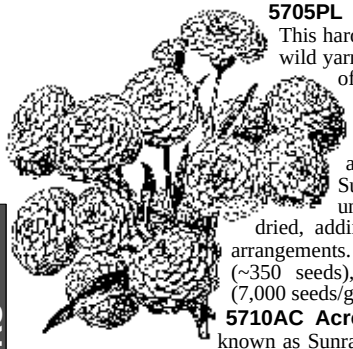
5491SF State Fair Mix Old-fashioned variety bears a rich array of huge single and double blooms on 30" plants. The blooms are much showier than those in the Gold Medal Mix. Catalog editor Susan Kiralis loves their intense fully saturated colors which include red, magenta, purple, orange, lavender and pink. ②③ **A**=0.5g, 80¢ (~40 seeds), **B**=2g, $2.00, **C**=12g, $6.00, **D**=4oz, $18.00 (80 seeds/g)

5493SW Swirls Zinnia These zinnias wowed everyone who saw them in our trials with their slightly fluorescent bicolor blooms of rose and white or red and yellow. The 4" flowers are fully double to semi-double with slightly ruffled flat petals borne on 2' stems. ② **A**=1g, 80¢ (~190 seeds), **B**=7g, $2.00, **C**=28g, $5.00, **D**=4oz, $10.00 (190 seeds/g)

5497CT Cutflower Mix A mixture of annual flowers which can be used for cutting. Includes popular types such as aster, bachelor's button, calendula; also some lesser-known kinds. ③ **A**=1g, 80¢, **B**=14g, $2.00, **C**=56g, $6.00, **D**=224g, $18.00

EVERLASTINGS

Seeds per packet for flowers are approximate. They are intended as guides, not guarantees, because we pack by weight, not by count. Flowers are arranged here by common name except where the botanical name is more familiar. See chart on pp. 62-63 for uses and cultural information. A botanical index appears on p. 88. Annuals except where noted.



5705PL The Pearl Achillea *A. ptarmica* This hardy perennial bears no resemblance to wild yarrow. Instead it has individual clusters of fully double pure white blooms with small yellow centers, almost like a large double Baby's Breath. Easily cultivated, it spreads readily and makes an effective "wild" border. Supplies fine cutflowers from spring until frost, enjoyable either fresh or dried, adding an engaging splash of white to arrangements. Zones 3-10. 2'. ② **A**=0.05g, 90¢ (~350 seeds), **B**=0.15g, $2.00, **C**=0.6g, $5.00 (7,000 seeds/g)

5710AC Acroclinium *Helipterum roseum* Also known as Sunrays. Daisy-like flower which may be used fresh as cutflower. Pick in bud stage; will open as it dries. White, rose and pink shades. Start in cool place 2 mos. prior to setting outdoors, or sow direct outdoors after frost. Annual. 2'. ② **A**=0.2g, 90¢ (~100 seeds), **B**=0.6g, $2.00, **C**=2.4g, $5.00 (500 seeds/g)

5714BI Bells of Ireland *Moluccella laevis* Sets spikes of bright green bell-shaped "flowers" atop 2½' branching stems. Each green bell is really a showy inflated calyx with a tiny pinkish flower inside. When dried, bells turn creamy white. Needs light to germinate. Likes partial shade; thrives in cool climates. ② **A**=1g, 90¢ (~140 seeds), **B**=3g, $2.00, **C**=15g, $5.00 (140 seeds/g)

5716BS Blazing Stars *Liatris spicata* Perennial also known as Gayfeather. 18" spikes of rosy purple flowers for cutflowers or drying. Start indoors in late winter in cool place and set out in spring in 6-8 weeks or direct seed in spring. Takes 3-4 weeks to germinate. Zones 3-9. ② **A**=1g, $1.00 (~330 seeds), **B**=5g, $2.50, **C**=15g, $7.00 (330 seeds/g)

5720BU Green Gold Bupleurum *B. griffithii* Although not well known except in Dutch flower auctions where it commands a price similar to roses, this unique plant with yellowish flowers and round leaves is gaining attention from dried flower growers. Its well-branched 2' stems air-dry perfectly, retaining their green color and looking like they had been dried in glycerine. Moreover, because each stem fans out, an individual stem provides backdrop for an entire arrangement, either fresh or dried. Start indoors early to reach full growth potential. ③ **A**=0.2g, 90¢ (~70 seeds), **B**=0.6g, $2.00, **C**=6g, $5.00, **D**=30g, $15.00 (350 seeds/g)

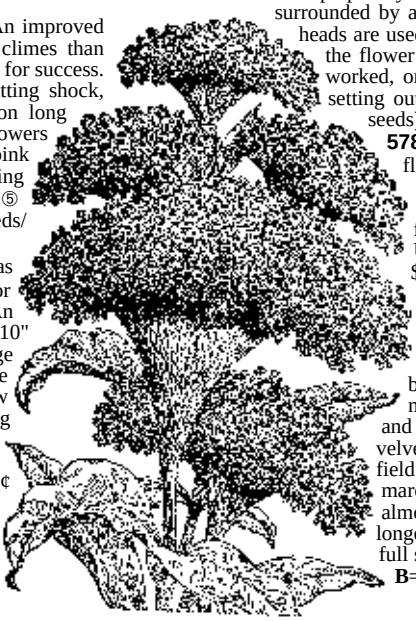
CELOSIA spp.

5725CR Cramer's Amazon *Celosia* spp. A truly wild thing from seed originally gathered near the Amazon in Peru. Makes a great landscape plant, shooting a 3-6' plume punctuated by 2-3" reddish-purple spikes. Its coleus-colored leaves, green splashed with purple, heighten its dramatic effect. Blooms hold up better than spicata as a dried flower if cut while the spikes are still short. As the blossoms age they turn white on the bottom. Amazing long red stems and spectacular spikes make this a perfect cutflower. Requires a long season. Start inside eight weeks before frost and transplant into warm ground. Pinch at 12" to encourage branching. ① **A**=0.05g, $2.00 (~50 seeds), **B**=0.2g, $6.00 (1,000 seeds/g)

5726PC Pink Candle Wheat Celosia *C. argentea spicata* An improved wheat celosia that is more adaptable to growing in northern climes than other wheat-types. Like melons, it requires a little extra attention for success. Start indoors early, transplant before flowering without permitting shock, and use row covers outdoors. Its shining rose-pink plumes on long strong stems are worth the extra fuss. They hold up well as cutflowers and dry beautifully. The 3' clumps are lovely as a vertical pink accent for late season displays. Colors, which lighten during summer's heat, intensify in the cooler temperatures of fall. ⑤ **A**=0.1g, $1.00 (~85 seeds), **B**=0.5g, $2.50, **C**=2g, $7.00 (850 seeds/g)

5730CG Coral Gardens Cockscomb *C. a. cristata* Known as *ji quan ha* in China where both seeds and flowers are used for blood diseases, bleeding and urinary tract infections. An extra-dwarf brain-type growing fairly large flowers on compact 10" plants. Blooms display a rich mix of red, crimson, rose, orange and gold with an almost neon glow. Be prepared when people approach your annuals and ask, "Do you have any brains?" Sow indoors in peat pots 4 weeks before last frost. Too-early seeding and cold temperatures can cause premature flowering. Seedlings sensitive to both drying out and damping off; apply even moisture. Pinch early heads to induce branching. ② **A**=0.5g, 90¢ (~600 seeds), **B**=3g, $2.00, **C**=15g, $5.00

5732FF Forest Fire Cockscomb *C. a. plumosa* Plume-type celosia or Feather Amaranth shows bright scarlet flowers, with strikingly beautiful bronze-red foliage. 30-36". ② **A**=0.2g, 90¢ (~300 seeds), **B**=3g, $2.00, **C**=12g, $5.00 (1,500 seeds/g)



5736CL Chinese Lantern *Physalis alkekengi* Physalis is the Greek word for bladder, referring to the husks. Perennial grown for its deep orange "lanterns," the calyx which surrounds the red fruit. May be sown indoors in warm place. Likes full sun. Dig out every three years to prevent invasion. Zones 3-10. ③ **A**=1g, $1.00 (~600 seeds), **B**=3g, $2.50, **C**=9g, $6.00 (600 seeds/g)

GLOBE AMARANTH

Gomphrena globosa

For immortality, unfading love. Easily grown in any soil, likes hot sun, blooms prolifically. Tolerates dry weather and some frost. Beautiful round clover-like 1" flowers on 2' stems. Also enjoyable as bedding plant. Sow indoors in warm spot, 2 months before setting out. Do not overwater.

5742GA Orange Large reddish-orange blossoms with a hint of yellow undertone, well suited for fall arrangements. Growers will prize its long strong stems and vivid colors. 18". ③ **A**=0.1g, $1.00 (~25 seeds), **B**=0.4g, $2.00, **C**=1.2g, $5.00 (250 seeds/g)

5746PG Purple Bright purple, almost fuchsia. ② **A**=0.1g, $1.00 (~25 seeds), **B**=0.4g, $2.00, **C**=1.2g, $5.00 (250 seeds/g)

5750QG QIS Red Vibrant strawberry-red profuse blooms. QIS stands for Quality In Seed. ③ **A**=0.1g, $1.00 (~25 seeds), **B**=0.4g, $2.00, **C**=1.2g, $5.00 (250 seeds/g)

5754MG Mix Shades of purple, rose, lavender and white. ② **A**=0.2g, 80¢ (~50 seeds), **B**=0.8g, $2.00, **C**=3.2g, $5.00 (250 seeds/g)

5762HY Honesty *Lunaria annua* Also known as Silver Dollar, Moneyplant, and Moonwort. Honesty is hard to find among our public figures. It is easy to find in our catalog; however, we haven't been selling a whole lot of it. May not even be able to give it away these days. Our Honesty is a winter-hardy biennial with fragrant lavender flowers usually grown for its large coin-shaped silver seed pods which shimmer in winter bouquets. Sow indoors in cool spot before setting out to a sunny location or direct sow spring or fall. 3'. ③ **A**=1g, 90¢ (~50 seeds), **B**=14g, $2.00, **C**=42g, $5.00 (50 seeds/g)

5770MM Immortelle Mix *Xeranthemum annuum* For cheerfulness. Papery daisy-like flowers 1½" across in a wide range of colors; also a nice cutflower, grows to 3'. Grown easily from seed, or can be started early indoors. ③ **A**=0.25g, 90¢ (~190 seeds), **B**=1.5g, $2.00, **C**=6g, $5.00 (760 seeds/g)

LOVE-IN-A-MIST *Nigella* spp.

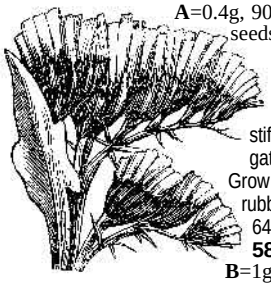
5782PJ Persian Jewels Mix *N. damascena* For perplexity. Profuse blooms in pink, blue and white shades surrounded by a cloud of greenery make lovely bouquets. Seed heads are used dried and are especially nice with a little bit of the flower attached. Direct seed as soon as ground can be worked, or sow indoors in a cool spot 2 months prior to setting out. Plant in full sun. 18". ② **A**=0.4g, 90¢ (~160 seeds), **B**=2g, $2.00, **C**=14g, $5.00 (400 seeds/g)

5786TF Transformer *N. orientalis* Yellow flowers followed by curiously shaped seed pods that may be "transformed" into seven-pointed stars by splitting the pods open at the seam and folding them back in a form of floral origami. Unique and easy to grow. 2' tall. ③ **A**=0.5g, $1.00 (~200 seeds), **B**=2g, $2.50, **C**=8g, $7.00 (400 seeds/g)

5790EX Exotic *N. hispanica* The velvetleaf is a farmer's bane, a pernicious weed, but bears wonderful starry seed pods. Exotic's golden brown pods are similar to velvetleaf's with a more spidery appearance that will add interest and volume to any dried arrangment. Unlike velvetleaf, this annual won't be a nuisance in the field. Doubles as a cutflower with open form, striking maroon stamens and an arresting shade of deep blue, almost purple. Atop 16" stems, the blossoms hold longer in a bouquet than other Love-in-a-Mists. Likes full sun or light shade. ③ **A**=0.1g, $1.00 (~90 seeds), **B**=0.4g, $2.00, **C**=2g, $5.00 (900 seeds/g)

5804TS Tricolor Salvia *S. viridis* Also known as painted sage. This prolific little beauty is splendid as a dried flower or as a filler in fresh arrangements. Although its leaves are entirely green, its name comes from its white and blue flowers set off by large pink-to-purple bracts. Easily air-dried, it will remain very colorful, flowering until frost if old blooms are removed. 18" stalks. Needs well-drained soil. ② **A**=0.5g, 90¢ (~350 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (700 seeds/g)

5810PP Ping Pong Starflower *Scabiosa stellata* Also called Mourning Bride. Small white flowers mature to ball-shaped many-faceted seed heads. Each facet has a delicate maroon star embossed on its center. 2' annual. ② **A**=0.4g, 90¢ (~10 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (25 seeds/g)



STATICE *Limonium sinuatum*

Faithful standby in everlasting bouquets; also good in fresh arrangements. Annual reaches 2-2½' on stiff winged bright green stems. Flowers may be gathered for drying many times throughout summer. Grow in full sun. Tolerant of dry conditions. Seed is rubbed for easier germination. 300 seeds/g. See also 6433 and 6434.

5816AS Apricot ② **A**=0.2g, 90¢ (~60 seeds), **B**=1g, $2.00, **C**=4g, $5.00

5820TB Turbo Blue The Turbo series is known for its early flowering habit and long stems. Our trialers Heidi Cooperstein and Michael Gulick report that it is taller with fuller flowers and higher yields than the Heavenly Blue which it replaces. They got tremendous production in 2002, a good statice year, and good results under much tougher conditions this year. 2½' tall. ② **NEW! A**=0.2g, $1.10 (~60 seeds), **B**=1g, $3.00, **C**=4g, $8.00 (300 seeds/g)

5824LS Lavender ② **A**=0.2g, 90¢ (~60 seeds), **B**=1g, $2.00, **C**=4g, $5.00

5828RB Rose Beauty Red. ② **A**=0.2g, 90¢ (~60 seeds), **B**=1g, $2.00, **C**=4g, $5.00

5832TP Turbo Purple Replaces Purple Monarch. ② **NEW! A**=0.2g, $1.10 (~60 seeds), **B**=1g, $3.00, **C**=4g, $8.00 (300 seeds/g)

5836WS White ② **A**=0.2g, 90¢ (~60 seeds), **B**=1g, $2.00, **C**=4g, $5.00

5842MS Mixed Colors ②③ **A**=0.4g, 80¢ (~115 seeds), **B**=2g, $2.00, **C**=6g, $5.00, **D**=30g, $15.00

5848GS German Statice *Goniolimon tataricum* Large silvery-white flower heads for drying. Grow indoors in a cool place 6 to 8 weeks, set out in early spring, or direct seed early spring or late fall. Likes heat and good drainage. Perennial. Clean seed. 20". ② **A**=0.05g, $1.00 (~50 seeds), **B**=0.2g, $2.00, **C**=1g, $5.00 (1,000 seeds/g)

5852RS Russian Statice *Psylliostachys suworowii* Long gracefully curved branched spikes with bright rosy-pink flowers. Good color retention. A poor germinator. Annual reaches 18". Originally from Turkestan. ② **A**=0.2g, $1.00 (~1,280 seeds), **B**=0.6g, $2.00, **C**=1.8g, $5.00 (6,400 seeds/g)

5860GB Gabriele Rose Beauty Strawflower *Helichrysum cassianum* Each stem produces a cluster of small daisy-like rose-pink flowers with yellow centers. The doubled petals create a full "starry" effect. The 16" plants are easy to grow, like full sun, and are already nearly dry when fully developed. Their texture and ability to hold color well enable them to fill a significant area in arrangements. ③ **A**=0.1g, $1.00 (~27 seeds), **B**=0.5g, $2.00, **C**=2g, $5.00 (270 seeds/g)

STRAWFLOWER *H. bracteatum*

The freeblooming strawflower is good for border color as well as for drying. Monstrosum varieties grow 30-40" tall, have 2-2½" fully double flowers. Grow in full sun. Gather blossoms before fully opened. Like warm weather but will bloom into fall.

5864FB Monstrosum Fire Ball Bright red. "Love Fireball strawflower. Stunning. Now that we have seen it we can't live without it." ② **A**=0.2g, 90¢ (~260 seeds), **B**=1g, $2.00, **C**=5g, $5.00 (1,300 seeds/g)

5868SR Monstrosum Silvery Rose Subtle bicolor with pink center petals surrounded by silvery white. Borne on well-branched plants that start producing 3½-4 months after indoor seeding. ② **A**=0.2g, 90¢ (~260 seeds), **B**=1g, $2.00, **C**=10g, $5.00 (1,300 seeds/g)

5872MX Monstrosum Mix Hot pink, light pink, white, gold and deep rose. ② **A**=0.33g, 80¢ (~525 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (1,575 seeds/g)

5876BK Bikini Mix These bikinis bear bright pink, red, white, yellow and gold double flowers on dwarf 14-18" plants in just 12 weeks. Several commercial arrangers we know prefer them to the taller strawflowers. ② **A**=0.1g, $1.00 (~130 seeds), **B**=0.8g, $2.00, **C**=3.2g, $5.00 (1,300 seeds/g)

5884SW Sweet Annie ECO *Artemisia annua* Also known as Sweet Wormwood. We associate its pungent fragrance with the Common Ground Fair where so many vendors offer it and where we sell more seed than for any other item. Annie grows up to 5', with light green leaves valued for everlasting wreaths which emit their distinctive redolence all winter. Used in China, where it's known as *qing hao*, as an anti-malarial and anti-microbial. It will reseed itself vigorously. Seed must be frozen for 2 days, then germinated in light. ② **A**=0.2g, $1.20 (~50 seeds), **B**=0.6g, $3.00, **C**=2.4g, $7.00, **D**=12g, $30.00 (250 seeds/g)

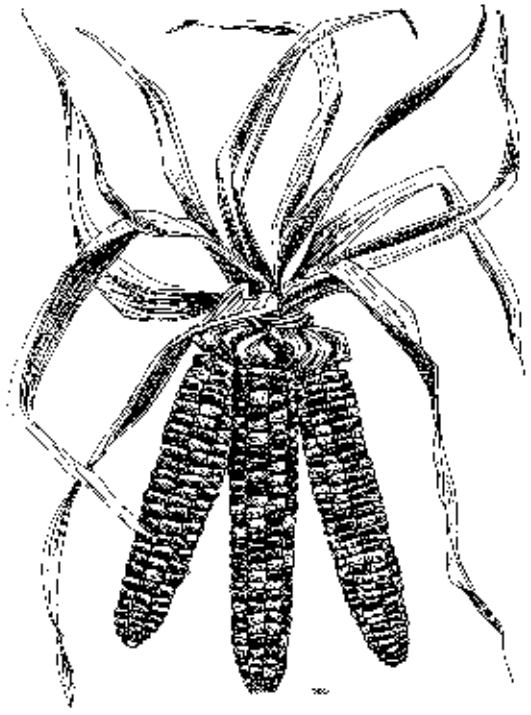
5890WE Grandiflora White Winged Everlasting *Ammobium alatum* Stiff wiry upright bright green winged stems bear white buttons about the size of a dime with bright yellow centers. Clustered flowers have reflexed silvery bacts. Harvest daily to stimulate more blooms. Sow indoors 8 to 10 weeks before setting outdoors in sunny location. 24". ② **A**=0.5g, 90¢ (~1,200 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (400 seeds/g)

GRAINS & GRASSES

Grasses are a special tool in the flower arranger's kit. Choose these decorative annuals for their differing forms as well as for their colors. The intricate designs of their seed heads make great accents.

5910YO Sheba Barley OG *Hordeum vulgare* Sheba's grand display will interest any gardener with even the barest of aesthetic ambitions, including those totally uninterested in harvesting the grain. (Incidentally, have you ever baked Tassajara barley bread with roasted barley flour? On second thought, let's not ignore the grain!) Sheba is a 6-row naked-seeded spring barley which originated in Egypt. Its strong 4' plants don't lodge, look magnificent in late summer. Once you try it you'll never be content with an all-vegetable garden again. BSO-certified. ① **A**=28g, $1.00 (~885 seeds), **B**=84g, $2.50, **C**=420g, $7.00 (31 seeds/g)

5930BR Red Broom Corn *Sorghum vulgare* (105 days) Not a true corn, broom corn looks and grows like corn but develops no ears, instead producing a tall spray of seed heads at the top of the plant in lieu of a tassel. These 2-3' sprays are laden with shiny red ⅛" seeds which birds love. Incorporate seeds into edible bird feeder wreaths or leave sprays intact to add variety to traditional fall decorations, or comb seeds out of the dry stalks and tie the seedless heads together to make straw brooms. Broom corn is the true source of our natural straw broom. Stalks will grow up to 10' in an optimal season, though most years they will be 7-9'. ① **A**=4g, 90¢ (~190 seeds), **B**=12g, $2.00, **C**=36g, $5.00, **D**=180g, $15.00 (48 seeds/g)



5940CP Calico Popcorn *Zea mays* (105 days) An heirloom dual-purpose corn with 5-8" ears that look like smaller versions of Indian corn. The shiny bright ears come in an array of colors, with red, yellow and calico most common, but brown, purple, blue, white and other combinations possible. Kernels are smaller than those of most Indian corns, but larger than conventional popcorns. Calico is both decorative and edible so you can hang it on your door in fall and pop the very same batch on Thanksgiving. Seed grown by the Biseks in Minnesota. ① **A**=28g, $1.20 (~270 seeds), **B**=84g, $3.00 (9 seeds/g)

5950HT Hare's Tail *Lagurus ovatus* Grown for its soft grey-to-white dense wooly conical heads which feel like rabbit's fur and will tickle your fancy. Easy to air-dry; make a great addition to everlasting arrangements. 1' stems. ② **A**=0.1g, 90¢ (~1,800 seeds), **B**=0.5g, $2.00, **C**=2g, $5.00 (1,800 seeds/g)

5958FX Foxtail Millet *Setaria macrocheata* Its graceful 3-6" golden seed heads bobbing on an August breeze attract attention even before harvest. After harvest, Foxtail Millet makes a striking counterpoint in floral displays. Customers ask for this specific strain because its heads, covered with golden-russet hairs, are softer and look less seedy than other types. Plant in June, harvest mid to late August. ②③ **A**=1g, 90¢ (~460 seeds), **B**=4g, $2.00, **C**=28g, $5.00 (460 seeds/g)

5960PM Purple Majesty Millet *Pennisetum glaucum* Visitors will ask, "What *is* that black corn plant?" Bursting onto the scene with a 2003 AAS award, this millet is the latest star accelerating the trend toward grasses in ornamental arrangements. A distinguished background plant with deep-purple 3-5' corn-like foliage and purple seed spikes nearly a foot tall and an inch around. The immature plumes, looking like purple cattails, can be used in floral arrangements or left on the plant to mature seed which will attract birds. Tolerates hot dry weather, likes sun and can be cultured like sunflowers. Pamela and Frank Arnosky, who write the Specialty Cutflower column in *Growing for Market* report that it was a sensation at markets. However, they caution that some cuts left in their packing shed for a few days turned solid yellow with pollen that had an odor like burnt antifreeze. They advise cutting the spikes immature, just as they emerge from the last leaf, to circumvent the pollen. As for the smell, they concluded they could put up with it. "Smells like money." With all the hype, the seed is exorbitantly expensive. We've had to restrict our packets to about six seeds to keep our price within reason. ⑤ **NEW! A**=0.05g, $2.00 (~6 seeds), **B**=0.2g, $5.00, **C**=0.6g, $12.00, **D**=1.8g, $35.00 (116 seeds/g)

5962TO Terra Hulless Oats OG *Avena nuda* Will Bonsall calls this the best of the naked oats, the one to grow to eat. At 100 days it is probably the earliest as well as the highest yielding with the largest seed. This high protein grain with pleasing flavor is easier to thresh than most other oats, though it still has a small hull which must be removed. Add a whole new dimension to your food self-sufficiency with Terra. MOFGA-certified. ① **NEW! A**=4g, 90¢, **B**=28g, $2.00, **C**=112g, $5.00, **D**=448g, $9.00

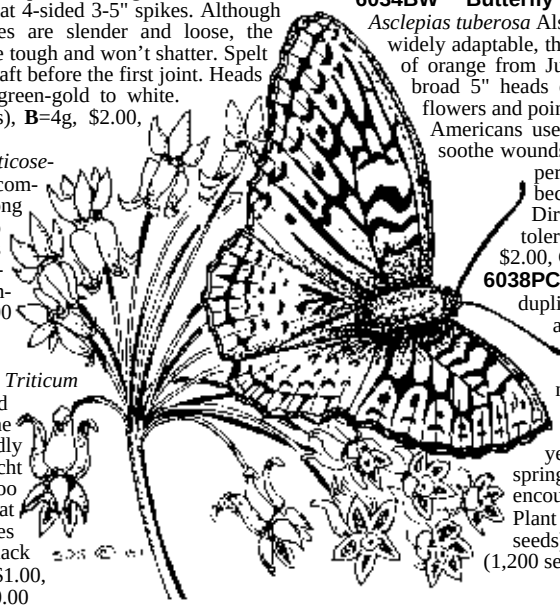
5964QG Quaking Grass *Briza maxima* Also known as Totter Grass. An old favorite for floral designers. The large 2½" rattle-like seed heads hang from strong 14-16" stems. ③ **A**=1g, 90¢ (~170 seeds), **B**=5g, $2.00, **C**=15g, $5.00 (190 seeds/g)

5972BS Black Sorghum *Sorghum nigrum* 6-8' plants topped with robust oval black inflorescences. Shorter and earlier than other sorghum varieties which often reach 12'. Sorghum, originally from Africa, is cultured in the South for the sweet syrup of its stalks. In the ornamental trade it is used as the focal point for large arrangements. Harvesting the heads at the right stage is an exact science; gotten too early they are not dark enough, too late they may discolor or shatter. ② **A**=1g, 90¢ (~60 seeds), **B**=4g, $2.00, **C**=12g, $5.00 (60 seeds/g)

5982PO Spelt OG *Triticum spelta* Spelt has been cultivated since ancient times. A hardy variety of wheat which is very tough, highly adaptable to our rigorous climate and grows well even in poor soils, Spelt sports a rich golden shaft with somewhat 4-sided 3-5" spikes. Although its spikes are slender and loose, the heads are tough and won't shatter. Spelt is good for braiding because it has a long shaft before the first joint. Heads show quite a color range from green to green-gold to white. MOFGA-certified. ① **A**=1g, 80¢ (~8 seeds), **B**=4g, $2.00, **C**=28g, $5.00, **D**=112g, $15.00 (8 seeds/g)

5990SW Silvertip Wheat *Triticum* x *Triticosecale* Actually a wheat/rye cross, Silvertip combines vigor with beauty, developing 4"-long seed heads even in cold climates. Silvertip comes early with attractively light glumes and awns which last a long time without discoloring atop the 2-3' plants. Highly recommended by Michael Gulick. ③ **A**=2g, $1.00 (~16 seeds), **B**=10g, $2.20, **C**=40g, $6.00 (8 seeds/g)

5995UO Utrecht Blue Wheat OG *Triticum spelta* Wheat is the most widely cultivated plant in the world and this may be the world's most beautiful wheat. It hardly matters (except to seed people) that Utrecht Blue is hard to thresh because it is too beautiful to eat and is used instead for wheat weaving and flower arrangements. Features four rows with blue-grey husks and long black awns. MOFGA-certified. ① **NEW! A**=4g, $1.00, **B**=28g, $2.20, **C**=112g, $5.50, **D**=448g, $10.00



PERENNIAL FLOWERS

Seeds per packet for flowers are approximate. They are intended as guides, not guarantees, because we pack by weight, not by count. Flowers are arranged here by common name. See chart on pp. 62-63 for uses and cultural information. A botanical index appears on p. 88.

For other perennials, see #4512, 4674, 4687, 4698, 4708, 4711,4734, 4742, 4774, 4776, 4777, 4784, 4787, 4806, 4829, 4836, 4837, 4866, 4936, 4962, 4964, 4984, 4986, 4990, 5705, 5716, 5848. Also see our Trees catalog for perennial plant crowns.

6008CQ Cerise Queen Achillea *A. millefolium* Also known as Pink Yarrow. Easy to grow and tolerant of drought, heat and poor soil. Beautiful cherry-red flat flower heads 2-4" across on 18" stems with lacy foliage. A good border plant. Needs light to germinate. Start indoors and transplant out. Zones 3-10. ② **A**=0.1g, 80¢ (~700 seeds), **B**=0.5g, $2.00, **C**=3g, $5.00 (7,000 seeds/g).

6020BB Single Alba Baby's Breath *Gypsophila paniculata* Lovely as a border plant in masses, bearing many tiny single white flowers. Useful as an everlasting if cut before fully opened. Seeds may be sown direct, do not cover. Grows to 3'. Zones 4-8. ② **A**=0.7g, 80¢ (~940 seeds), **B**=7g, $2.00, **C**=21g, $5.00 (1,300 seeds/g)

6022BM Panorama Red Shades Bee Balm *Monarda didyma* A new cultivar that comes true to color from seed. Bushy clumping 30" perennial bears 1-2 whorls of true-red tubular flowers on each stem from mid to late summer. Also known as Oswego Tea. The Oswego Indians used it for tea and so did the colonial American separatists in their struggles with the British over tea taxes. Used medicinally for its antiseptic and antimicrobial compounds. Attractive to butterflies, hummingbirds and, of course, bees, Monarda can grow in either sun or shade. In shade its bloom time is lengthened but it can be blighted by powdery mildew (which lessens its attractiveness but not its longevity). Direct seed or transplant, surface sow in spring or summer, takes 14 days to germinate. Zones 4-9. ③ **A**=0.02g, $1.00 (~40 seeds), **B**=0.06g, $2.50, **C**=0.24g, $6.00 (2,000 seeds/g)

6028BC Blue Clips Bellflower *Campanula carpatica* For constancy, gratitude. Masses of light cobalt blue bellflowers dance 8" high above a tidy mound of foliage. A very hardy perennial that is easy to grow, Blue Clips will bloom in sun or partial shade from June to October. Zones 4-10. ③ **A**=0.05g, $1.00 (~600 seeds) (12,000 seeds/g) *Not available in larger sizes.*

6034BW Butterfly Weed *Asclepias tuberosa* Also called Pleurisy Root. Native to North America and widely adaptable, this bright sun-loving perennial provides a bold splash of orange from June until frost. Vigorous mounded 2x2' plants bear broad 5" heads of waxy flowers attractive to butterflies. Both the flowers and pointed seedpods are useful for cut arrangements. Native Americans used roots to combat lung and throat troubles and to soothe wounds and sores. Germinates in 3 weeks at 70˚. Choose a permanent site with well-drained fertile sandy soil because its tuberous roots do not like to be disturbed. Direct sow in spring or fall. Exceptionally drought-tolerant. Zones 4-9. ② **A**=0.2g, 80¢ (~40 seeds), **B**=0.6g, $2.00, **C**=3g, $5.00 (200 seeds/g)

6038PC Persian Catmint *Nepeta mussinii* While we can't duplicate the lavender fields of Provence in Maine we can achieve similar visuals by planting catmint. Its soft grey-green leaves clothe wiry 1' stems crowned with clusters of lavender-shaded tubular flowers. A member of the mint family, it grows rapidly in rich moist soils, but in sandy drier conditions its vigor can be contained. Plant early for blooms the first year. Thereafter will bloom for six weeks each early spring to summer. Shear plants after blooming to encourage repeat blooms and to diminish self-sowing. Plant in full sun 2' apart. Zones 4-8. ② **A**=0.1g, 80¢ (~120 seeds), **B**=0.3g, $2.00, **C**=1.2g, $5.00, **D**=6g, $12.00 (1,200 seeds/g)

COLUMBINE *Aquilegia* spp.

For hopes and fears. To many, columbines are an essential part of the cottage garden or border. Their spurred flowers in mixed colors lure the fairies into the garden. Like moist well-drained soil, sun or partial shade. Need light to germinate; take 3-4 weeks. Zones 3-10.

6042SE Mrs. Scott Eliot Mixed *A. caerulea* Free-blooming white, red, lavender and pink spurred flowers rising to 30" on strong stems. Pre-chill seed 3-4 weeks. Will bloom 1st season if seeds are sown indoors in early spring. Do not cover. Flowers May and June, attracts hummingbirds. ② **A**=0.6g, 90¢ (~80 seeds), **B**=1.8g, $2.50, **C**=5.4g, $6.00 (130 seeds/g)

6048EC European *A. vulgaris* A much better landscape plant than Mrs. Eliot or McKana Giants because its leaves remain green through the whole season. Spurless blossoms are mostly pink, with a few purple and white shades. 2½'. ③ **A**=0.3g, 80¢ (~240 seeds), **B**=1.2g, $2.00, **C**=6g, $5.00 (800 seeds/g)

6054CF Goldsturm Coneflower *Rudbeckia fulgida* 1999 Perennial Plant of the Year offers a profusion of shining golden yellow flowers with dark central cones in August and September. Hardy perennial transplants well and has larger flowers (up to 5" across) than its wild counterpart, Black-Eyed Susan. The 2' plants have long strong stems ideal for cutting. Zones 3-10. ③ **A**=0.1g, $1.00 (~90 seeds), **B**=0.4g, $2.50, **C**=1.2g, $6.00 (900 seeds/g)

CORAL BELLS *Huechera* spp.

Named for Johann Heinrich von Heucher, a German botanist. Their compact habit makes coral bells excellent for low borders and rockeries. They like good soil and partial shade, but will tolerate full sun. Zones 4-10. 20,000 seeds/g.

6062BH Bressingham Hybrids *H. sanguinea* Palest pink to deepest crimson sprays of graceful bells rise 18" above hardy mounds of heart-shaped foliage. Start indoors in cool place 8-10 weeks before setting out. Need light to germinate. ② **A**=0.02g, 90¢ (~400 seeds), **B**=0.1g, $2.00, **C**=0.3g, $5.00

6064PP Purple Palace *H. micrantha* Striking border plant with showy 6" ivy-shaped mahogany-red leaves makes an attractive ground cover or accent. Its small white bell-shaped flowers are insignificant. Divide and sidedress every three years. Discard the few plants that make green foliage. ③ **A**=0.02g, $1.00, **B**=0.06g, $2.50, **C**=0.18g, $7.00

6068ES Early Sunrise Coreopsis *C. grandiflora* Won 1989 AAS for its ability to bloom weeks earlier than other Coreopsis varieties. Dense well-branched 18" plants are loaded with 2" semi-double vivid golden- yellow blooms. Start indoors in cool place 6-8 weeks before setting out in sunny spot. Do not cover seed. Leave dead foliage on plant until spring. Zones 3-10. ⑤ **A**=0.1g, 90¢ (~32 seeds), **B**=0.3g, $2.50, **C**=0.9g, $6.00 (320 seeds/g)

DELPHINIUM x *cultorum*

For haughtiness and fickleness. The Pacific Giants were developed in California after World War II. Magnificent dense racemes make delphinium excellent in the border and as a cutflower. Likes sun, moist rich soil, can tolerate some shade. Heavy feeder; sidedress in spring with well-composted manure. Zones 3-7. All types 450 seeds/g.

6080AD Astolat Pacific Giant Pastel mix in lilac, raspberry and rose with dark bees. 6'. ② **A**=0.2g, $1.00 (~90 seeds), **B**=0.6g, $2.50, **C**=1.8g, $7.00

6084KN Black Knight Pacific Giant Intense dark purple with black bees. Stately and breathtaking. 6'. ② **A**=0.2g, $1.00 (~85 seeds), **B**=0.6g, $2.50, **C**=1.8g, $7.00

6088SS Summer Skies Pacific Giant Light heavenly blue with white bees. 6'. ② **A**=0.2g, $1.00 (~85 seeds), **B**=0.6g, $2.50, **C**=1.8g, $7.00

6094KR King Arthur Pacific Giant Velvety royal purple with white bees. 6'. ② **A**=0.2g, $1.00 (~85 seeds), **B**=0.6g, $2.50, **C**=1.8g, $7.00

6098CY Connecticut Yankee Mix Dwarfed version grows only 3'; good where wind is a problem. 1965 AAS in blue, purple, lavender and white. ② **A**=0.25g, $1.00 (~110 seeds), **B**=1g, $2.50, **C**=3g, $7.00

6110FD Foxy Digitalis *D. purpurea* Also known as Foxglove. For insincerity. 1967 AAS. A breeding breakthrough allows this biennial to bloom the first season. Foxy starts blooming when only 18" high just five months from seed and continues with up to nine spikes apiece as it grows to a mature 3'. Each spike is covered with dangling thimble-shaped flowers which range from cream yellow to pinks, with attractive interior spotted markings. *Entire plant is poisonous.* Zones 4-10. ②⑤ **A**=0.1g, $1.00 (~1,000 seeds), **B**=0.4g, $2.00, **C**=2.4g, $5.00 (10,000 seeds/g)

6120BF Blue Flax *Linum perenne* subsp. *Lewisii* Also known as Prairie Flax. For domestic industry. Single light-blue flowers with finely cut foliage for borders or rock gardens. New flowers open every morning all summer, fade in afternoon heat. Likes full sun. Very drought tolerant. 9-12". Start indoors in a cool place 6-8 weeks before setting out or direct seed in cool soil in spring or fall. Zones 4-9. ③ **A**=1g, 80¢ (~750 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (750 seeds/g)

6130GG Grandiflora Mix Gaillardia *G. grandiflora* Also known as Blanketflower. For good sense. Easily grown perennial sports showy fringed daisy-like flowers of maroon red edged in gold which will bloom from June to frost. Strong 2½' stems are good for cutting. Will blend right into fall arrangements. Seedheads are as arresting as its lovely blooms. Prefers dry sunny locations to moist fertile ones. Will bloom the first year if sown early. Zones 3-9. ② **A**=0.25g, 80¢ (~85 seeds), **B**=1g, $2.00, **C**=4g, $5.00 (340 seeds/g)

6137SS Summer Sun Heliopsis *Heliopsis scabra* Also known as Ox Eye and False Sunflower. You've probably seen this rugged workhorse border plant somewhere in your travels. A showy informal perennial that could almost pass as a sunflower, the 3-6' plants bear durable 2-3" golden-yellow semi-double flowers from midsummer till early fall. Bushy habit well-suited for the back of a border, also able to stand alone to provide a spot of color. They bloom the first year from seed and make fine cutflowers. Germinates in three weeks at 70˚. Prefers full sun and well-drained soil. Zone 4-8. ② **A**=0.5g, 80¢ (~100 seeds), **B**=2g, $2.00, **C**=6g, $5.00, **D**=30g, $12.00 (200 seeds/g)

HOLLYHOCK *Alcea rosea*

For ambition. An old-time favorite for background color. Biennial, will reseed in a good year. Needs staking. Cut flower stalk to induce rebloom. Likes full sun, lots of room, and moist soil. Seed may require alternate freezing and thawing to break dormancy. Germinate in 10 days at 70˚F. Start indoors in a warm place 2 mos. prior to planting. Zones 3-8. Average 115 seeds/g.

6140CD Chater's Double Mix Double flowered in shades of red, pink, yellow and white. Dates back to the 1880s. 4-5'. ② **A**=1g, 80¢ (~115 seeds), **B**=5g, $2.00, **C**=15g, $5.00

6146SM Indian Spring Single Mix Customers asked us to find an old-fashioned single. 7' beauty favored by hummingbirds in shades of red, yellow, white and rose. 1939 AAS. ② **A**=0.25g, 80¢ (~25 seeds), **B**=1g, $2.00, **C**=3g, $5.00

6152BH Black Hollyhock *A. r.* var. *nigra* Shimmering burgundy-black single flowers characterize this heirloom hollyhock which blooms the second year. Biennial lasts 3-4 years in favorable conditions. Surface sow inside in April. Overly rich potting mixes will encourage damping off. This may be the same black hollyhock grown by Thomas Jefferson at Monticello. ② **A**=0.25g, $1.00 (~32 seeds), **B**=1g, $2.50, **C**=4g, $7.00

6170HM Helen Mount Johnny Jump Up *Viola tricolor* Also known as Heartsease Pansy. This 4-6" favorite bears tricolor blooms in violet, lavender, and canary yellow. Small abundant flowers like partial shade. Can be direct seeded early spring for flowers late in season or sown in fall for earlier blooms the following year. Some call it invasive, others enjoy its cheerful spreading habit. Flowers make edible decorations with a faint wintergreen taste. Zones 3-9. ② **A**=0.5g, 90¢ (~450 seeds), **B**=1.5g, $2.00, **C**=4.5g, $5.00 (900 seeds/g)

6180BL Blackberry Lily *Belamcanda chinensis* Also known as Leopard Lily. Mentioned in the first century Chinese *Shen Nong Canon of Herbs* and grown by Thomas Jefferson in Monticello in 1807 as Chinese Ixia. Neither an Ixia nor a lily, but rather a tough long-lived iris that has escaped from old gardens and naturalized throughout the countryside. The rhizomes are valued to combat bacterial, viral and fungal organisms and widely used in Chinese medicine. Cheery lily-like 2" orange flowers with red freckles open their six petals in the afternoon. Though they last only a day, they make vibrant additions to the flower border, especially in mass plantings. Three-chambered capsules split open to reveal shiny black globular seed clusters that look like tiny blackberries in their dried pods and make highly decorative winter centerpieces. This drought-tolerant sun lover is easy to grow. Start indoors in a cool place in late winter 6 to 8 weeks before setting out in spring or direct sow outdoors in early spring or late fall while the soil is cool. Can take 30 days or more to germinate. Does best in fertile well-drained sandy humus-rich soil. Needs winter protection in cold areas. Zones 5-10. ③ **NEW! A**=0.4g, $2.00 (~12 seeds), **B**=1.2g, $5.00, **C**=3.6g, $12.00 (30 seeds/g)

Russell Hybrids Choice Mix Lupine *Lupinus polyphyllus* For dejection. Bred by George Russell of York, introduced 1937, won coveted Gold Medal from the Royal Horticultural Society. Dense spikes with large flowers in full range of colors. They like a cool moist spot in full sun, preferring sandy soil with ample room for their roots to spread. Can be sown indoors in late winter, or outdoors in early spring or late fall. 3'. *Seeds and seed pods are poisonous.* Zones 4-9.

6186RL Russell Hybrids Choice Mix Lupine ③ **A**=1.4g, 80¢ (~50 seeds), **B**=7g, $2.00 (35 seeds/g) *Not available in larger sizes.*

6187LO Russell Hybrids Choice Mix Lupine OG MOFGA-certified. ① **A**=1.4g, $1.20 (~50 seeds), **B**=7g, $3.00 (35 seeds/g) *Not available in larger sizes.*

6196MP Maiden Pink *Dianthus deltoides* Known as pinks, not for their color but for their petal tips, serrated as if cut by pinking shears. Dense green mat of 6" plants topped with flowers which bloom all summer in a mix of bright red, purple magenta, pink, and white with a red ring. Likes sun, well-drained to dry soil. Zones 2-10. ③ **A**=0.05g, 90¢ (~275 seeds), **B**=0.2g, $2.00, **C**=1g, $6.00 (5,500 seeds/g)

6204MC Maltese Cross *Lychnis chalcedonica* For wit. Desirable 3' border plant excellent for cutflowers. Produces brilliant scarlet florets in a five-part cross, attracts hummingbirds and butterflies. Makes a hot color combination with coneflowers and Gaillardia. Thomas Jefferson grew these at Monticello in 1807. Start indoors in early spring or midsummer for blooms next year. Do not cover seeds. Like moist soil and full sun. Zones 3-10. ③ **A**=0.4g, 80¢ (~55 seeds), **B**=2g, $2.00, **C**=6g, $5.00 (140 seeds/g)

6234PH New Hybrids Mix Phlox *P. paniculata* F-1 hybrid. Perennial phlox blooms from June till frost. Excellent for borders and cutflowers. Mix of white, pinks, reds and lilacs. Freeze seeds 10 days before sowing indoors, or direct seed in cold soil. Slow germinator, takes 3-4 weeks. Likes full sun. 3'. Zones 3-9. ③ **A**=0.1g, 90¢ (~8 seeds), **B**=0.3g, $2.50, **C**=0.9g, $5.00 (80 seeds/g)

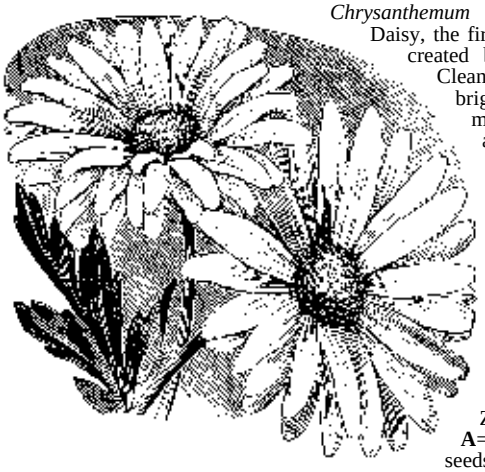
6244GG Gartford Giants Mix Poppy *Papaver nudicaule* Known as Iceland Poppy. For fantastic extravagance. Delicate white, yellow, gold, apricot, orange blossoms from May to frost. Direct seed in spring in a sunny spot. 1'. Zones 2-8. ② **A**=0.4g, 80¢ (~2,450 seeds), **B**=4g, $2.00, **C**=12g, $5.00 (6,000 seeds/g)

6254AP Dwarf Allegro Oriental Poppy *P. orientale* Long-lived perennial grows 16". Fern-like fuzzy leaves, showy buds open to dazzling scarlet flowers with contrasting black eyes. Sow in June, transplant in October for flowers the following summer. Plant alongside border perennials and ornamental grasses. Zones 2-8. ③ **A**=0.05g, $1.00 (~250 seeds), **B**=0.2g, $2.50, **C**=0.6g, $7.00 (5,000 seeds/g)

6262PP Potsdam Mix Primrose *Primula vulgaris* These tidy harbingers of spring burst forth with a shot of bright color when its most needed, in late April or early May. Resemble small bouquets in pink, blue, yellow and red with yellow centers. Most attractive massed in a low border or under a canopy of trees. Like partial shade and prefer a moist well-drained soil high in organic content. Some seasons a second full blooming will poke through the carpet of autumn leaves. Zones 3-8. *Seed in short supply, order early.* ③ **A**=0.04g, 90¢ (~35 seeds) *Available in size A, only.*

6266QM Queen of the Meadow *Eupatorium purpureum* Also known as Joe Pye Weed or Gravel Root. A "queenly" native: stately, tall and beautiful, with dense florets of dusty pinkish-purple flowers and foliage that releases the scent of vanilla when crushed. At 5-9' tall, it makes an impressive background plant and a good cutflower. Medicinally, the root is used to treat chronic irritable bladder, urinary infections, kidney stones, menstrual cramps and prostate infections. Also stimulates circulation and reduces inflammation. Does best in moist well-drained areas, full sun or part shade. Surface sow in spring or fall; needs stratification unless sown in fall; takes 3 weeks to germinate; direct seed or transplant. Zones 4-9. ③ **A**=0.02g, 90¢ (~50 seeds), **B**=0.1g, $2.00, **C**=0.4g, $5.00 (2,500 seeds/g)

6272SD Alaska Strain Shasta Daisy *Chrysanthemum* x *superbum* Shasta Daisy, the first man-made flower, created by Luther Burbank. Clean white flowers with bright yellow centers make good cutflowers and border plants for sunny locations. Looks good with Gaillardia and Coreopsis. One of the easiest perennials to grow; will usually bloom first year if started indoors in spring and transplanted when soil warms. 3'. Zones 4-10. ③ **A**=0.5g, 80¢ (~475 seeds), **B**=4g, $2.00, **C**=16g, $5.00 (950 seeds/g)



6276SK Silkweed *Asclepias incarnata* If you like milkweed, you'll love silkweed—and the butterflies will too. Thick-stemmed 4' perennial with clusters of purplish-pink flowers makes a great garden backdrop. Blooms from midsummer to early autumn and finishes with pods that split open to reveal the "silk." Also known as Swamp Milkweed; prefers moist locations. Plant in spring or fall. Prechill seed for 2 weeks; direct seed or transplant; surface sow. Zones 3-9. ② **A**=0.1g, 90¢ (~22 seeds), **B**=0.4g, $2.50, **C**=1.2g, $6.00 (220 seeds/g)

6282SZ Helena Mix Sneezeweed *Helenium autumnale* Also known as Sunny Bride. Supposedly used for snuff in earlier times, hence its common name. A rich chromatic scale of bronze, brown, crimson and yellow shades for an end-of-summer display. Single flowers resemble Coreopsis but have a large center "button" like coneflower and cover the tops of branching upright 4-5' plants. Combine with asters and phlox for great late-season color. Not fussy, easy to grow, excellent for cutting. At its prime when most perennials have finished blooming. Generally a low germinator; needs 2-3 weeks. Zones 3-10. ③ **A**=0.1g, $1.00 (~500 seeds), **B**=0.3g, $2.50, **C**=0.9g, $7.00 (5,000 seeds/g)

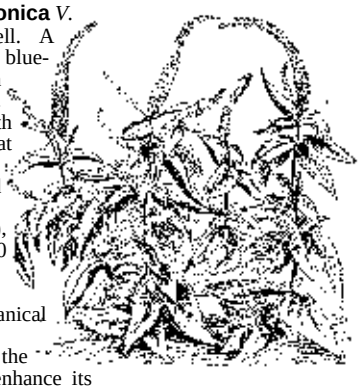
6296PP Perennial Sweet Pea *Lathyrus latifolius* Wilt thou go with me? The traditional English cottage sweet pea, grown by Jefferson in 1771, thrives in cool climates, loves sun, climbs 6' and is useful as a screen. Comes in shades of rose, white and pink in big clusters. Good cutflowers. Soak seeds up to 24 hours before sowing outdoors in early spring. Can take 3-4 weeks to germinate. Zones 3-10. ② **A**=1g, 80¢ (~20 seeds), **B**=3g, $2.00, **C**=12g, $5.00 (20 seeds/g)

6306SW Double Choice Mix Sweet William *Dianthus barbatus* For gallantry. A fragrant self-sowing biennial in red, pink, white, lavender or mixed colors. Germinates in 7-14 days at 70˚. May be started 2 mos. before setting outdoors, or direct seeded in late summer or fall. Requires full sun and good drainage, likes lime. 18". Zones 4-10. ② **A**=0.5g, 80¢ (~475 seeds), **B**=7g, $2.00, **C**=28g, $5.00 (950 seeds/g)

6311TH Thrift *Armeria maritima* Also known as Sea Pink. Tufts of evergreen grassy leaves form spreading 6-12" mounds with masses of chive-like blossoms rising above the foliage. Blooms in summer with possible rebloom in late fall. Grows best in full sun in a light well-drained soil. Tolerant and easy, good for rock gardens, edging or the front of a border. Zones 3-9. ② **A**=0.05g, 90¢ (~165 seeds), **B**=0.2g, $2.00, **C**=0.6g, $5.00, **D**=1.8g, $12.00 (1,685 seeds/g)

6316CT Creeping Thyme *Thymus serpyllum* Also known as Mother-of-Thyme or Brotherwort (not to be confused with Motherwort!). Creeping sweet-scented ground cover with purple flowers good in rock gardens, between stepping stones, or on dry slopes. Likes good drainage, full sun and alkaline soil. Plants grow slowly from seed, may be started indoors 2 mos. before planting, or outside in early spring or fall where they will grow. Sow thickly, do not cover seeds. 2". Zones 3-10. ③ **A**=0.1g, 90¢ (~800 seeds), **B**=1g, $2.00, **C**=3g, $5.00, **D**=30g, $30.00 (8,000 seeds/g)

6326SV Sightseeing Mix Veronica *V. spicata* Also known as Speedwell. A wonderful mix of pink, white and blue-violet flowers—glorious when they're all blooming together. Growing uniformly to 2-2½' with erect, pointed spikes, makes a great border, also a superb cutflower. Will bloom the first year if started early indoors. Zones 3-8. ③ **A**=0.02g, $1.00 (~160 seeds), **B**=0.06g, $2.00, **C**=0.18g, $5.00 (8,000 seeds/g)



6333BM Beneficials Mix *Melangus perplexus* (Spurious botanical name courtesy of your intrepid copywriter.) "When you increase the diversity of an eco-system you enhance its ability to maintain itself and to resist perturbation." Frank Morton inspired 75 seed growers with his talk on Whole Farm Cropping Systems at Restoring Our Seed's winter seminar last January at MOFGA. One way to increase the diversity of your eco-system is to sow our new Beneficials Mix. This mix of annuals, biennials and perennials will attract and maintain a diverse population of beneficial insects to help you manage pests in your garden. Comprised of alyssum, bachelor button, borage, gem marigold, dill, fennel, Phacelia tanacetifolia or fiddleneck, caraway, parsley, golden marguerite, ajuga, basket of gold alyssum, and Rocky Mountain penstemon, this mix should be planted as a hedgerow close to the garden. Instead of resorting to toxic sprays, attract hover flies, ladybugs, lacewings, parasitic wasps, tachnids, spiders, minute pirate bugs, damsel flies and big eyed bugs and let them devour the "bad" bugs! Something will be blooming from spring through fall. Plant in spring in full sun in a well-prepared weed-free seedbed. Should any variety become unavailable we will substitute one with similar efficacy. ③ **NEW! A**=1.4g, $1.50, **B**=7g, $6.00, **C**=28g, $12.00, **D**=112g, $35.00

6336WF Wildflower Mix for the Northeast. A blend of 21 perennial and self-sowing annual species native to or naturalized in northeast U.S. and Canada. Includes Dame's Rocket, Black-Eyed Susan, Shirley Poppy, Blazing Star and Bachelor's Button. Broadcast in spring or fall in a well-prepared weed-free seedbed in a sunny spot. Seed at a rate of 1 lb/4500 sq. ft. ③ **A**=1.4g, 80¢ (~3,000 seeds), **B**=7g, $2.20, **C**=28g, $6.00, **D**=1lb, $38.00 (60,000 seeds/g)

Achillea millefolium 4990,6008
A. ptarmica 5705
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Alcea rosea 6138-52
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DISCOUNTED SPECIALS

The descriptions explain our reasons for carrying and then dropping these cultivars. We know you love bargains and we hate to disappoint you. We run out of most discounted specials during our late January rush. Please order early.

6408GD Golden Delicious Winter Squash (105 days) *Cucurbita maxima* Open-pollinated. A staple of commercial canners and baby-food makers since its introduction in 1926 by Gill Bros. Seed Co. of Portland, OR. Apparently not as popular among gardeners and farmers; slow sales have convinced us to discontinue it. Bright reddish-orange teardrop fruits weigh 5-15 lb. with smooth-textured thick orange flesh. Its breeders combined the orange color and earliness of the celebrated Boston Marrow with the quality and size of Delicious. Not as sweet as Burgess Buttercup, nor as dry as the Japanese squashes, nevertheless makes mighty good eating. We have about 50 packets at 90% germination and will sell out early. ③ **A**=1/4oz, 70¢ (~72 seeds)

6411KR King Richard Leek *Allium ampeloprasum (porrum group)* (75 days) Noted for its elegant long thick delicately flavored stalks. Ready in late August, will withstand light frosts, but should be harvested before the really cold nights. Discontinued because no longer commercially available. *Order early, our 159 remaining packets won't last long.* ④ **A**=1/16oz, $1.60 (~435 seeds)

6425WR White-Ribbed Smooth-Leaf Swiss Chard (50 days) *Beta vulgaris* (cicla group) Open-pollinated. We offered as a substitute for Fordhook Giant. Very similar to Fordhook. 70% germination. *Only 57 packets left.* **A**=1/16oz, 50¢ (~72 seeds)

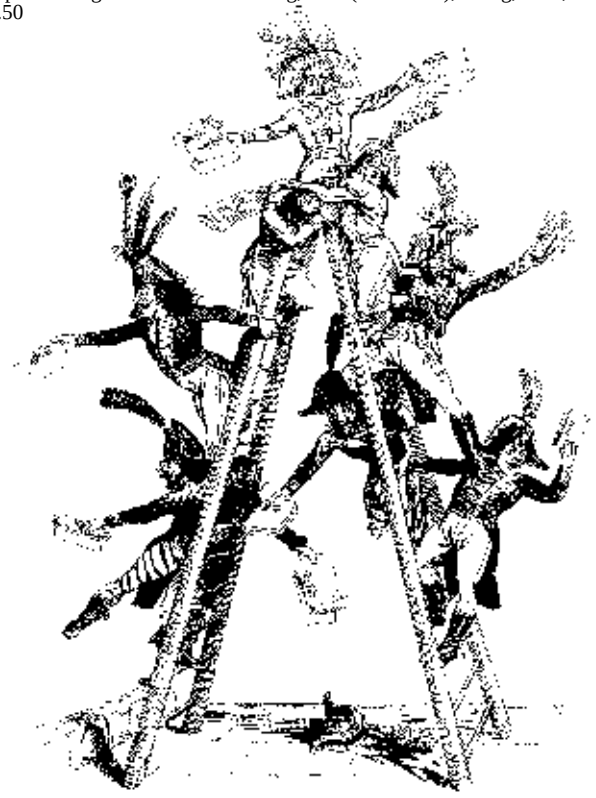
6427KN Konserva Kale (60 days) *Brassica oleracea* (acephala group) Heavier yielding than Vates. Plants grow 2-2½' tall, leaves curl in cold weather. Very nutritious and exceptionally cold hardy. ④ **A**=2g, 80¢ (~665 seeds)

6429YP Yellow Plum Tomato ECO *Lycopersicon esculentum* (72 days) Ind. We've nibbled on these meaty little gems for years. Unlike many pear types, they don't crack or succumb easily to disease. Nineteenth century heirloom. Grown in Maine. Discontinued because replaced by Fargo Yellow Pear. *We have around 60 packets left and should sell out early.* ① **A**=0.5g, 80¢ (~235 seeds)

6432HO Flower of the Hour OG *Hibiscus trionum* So-called because each showy bloom lasts one day, but the bushy 2' tall plants are covered with buds so the effect is free-flowering. Creamy-white 3" five-petaled flowers with burgundy eye. Hardy annual blooms from August through light frosts. Not bothered by beetles as are other mallows. Plant in groups in full sun; may be direct seeded. MOFGA-certified. Discontinued because of poor sales. Still plenty of seed at 81% germination. Guess we should call this one flower of many hours! ① **A**=0.2g, $1.80 (~50 seeds), **B**=0.8g, $6.00 (250 seeds/g)

6433HB Heavenly Blue Statice *Limonium sinuatum* Medium-deep violet-blue. Replaced by Turbo Blue. 76% germination. ② **A**=0.2g, 70¢ (~80 seeds), **B**=1g, $1.80, **C**=4g, $4.50 (24 seeds/g)

6434PM Purple Monarch Statice *L. s.* Deep purple. Replaced by Turbo Purple. 85% germination. ② **A**=0.2g, 70¢ (~60 seeds), **B**=1g, 1.80, **C**=4g, $4.50



FEDCO·SEEDS

Co-op Seed Packers

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Fedco **Tree Sale** April 30 & May 1 for preorders

May 7-8 Public Sale

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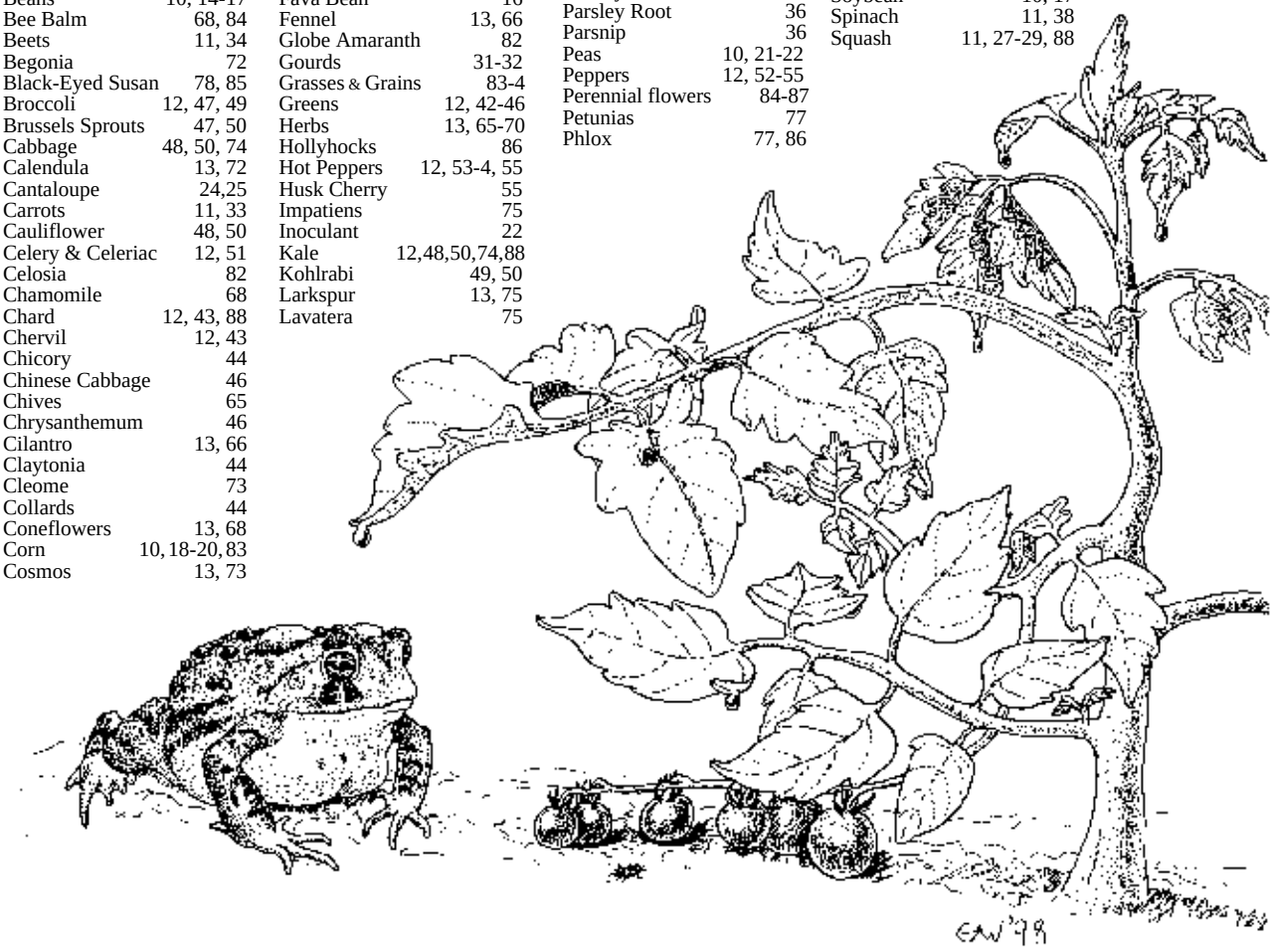

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Fedco Seeds 2004

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MOFGA-Certified Organic Seedlings

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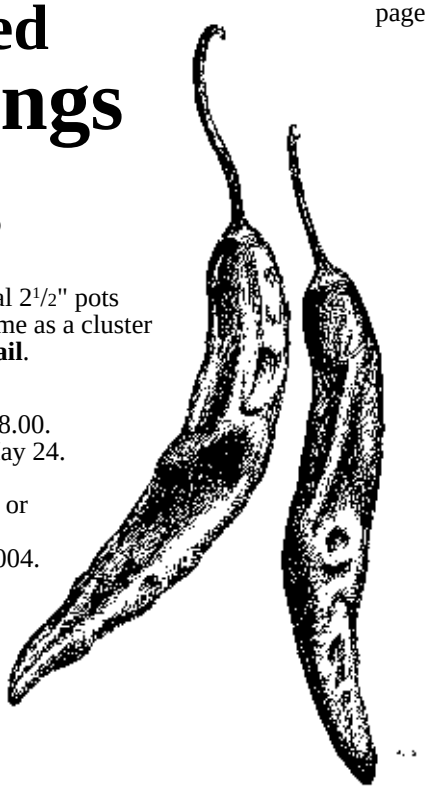

Fedco offers single robust **seedlings** in individual 2½" pots (except for onions, leeks and scallions which come as a cluster of 20-24 plants per pot) **shipped by Priority Mail**.

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- The **minimum order** is 6 seedlings or $18.00.
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total number of seedlings ordered		
multiply by price per seedling	x	$3.00
Subtotal (minimum $18.00)	=	
Orders shipped to Maine, add **5%** sales tax	+	
Add $2 if you fax your order	+	
Shipping– $10.00 for every 12 seedlings or portion of 12 seedlings	+	
GRAND TOTAL	=	

Make checks payable to **Fedco**

We accept Visa or MasterCard ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ Exp. Date ☐☐☐☐

Please check the week you'd like us to ship your seedlings:

- April 26 ❑
- May 10 ❑
- May 24 ❑

Seedlings will be shipped Monday-Wednesday. In cold weather, we may delay shipments a week.

Catalogs can be downloaded at our website: **fedcoseeds.com**

❑ **Don't mail me catalogs, I will download them**

All seedlings are grown by John & Michele Pino at Mooarhill Farm in Mount Vernon, ME.
Final order deadline-Friday, May 14, 2004

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Item #	Variety	Quantity
2484S	Onion, Ailsa Craig	
2478S	Onion, Bennie's Red	
2472S	Onion, Copra	
2408S	Leek, Lincoln	
2439S	Scallions, Evergreen Hardy	
3608S	Artichoke, Imperial Star	
3442S	Broccoli, Green King	
3682S	Eggplant, Dusky	
3673S	Eggplant, Pingtung Long	
3690S	Eggplant, Rosa Bianca	
4418S	Basil, Genovese	
4461S	Basil, Purple Ruffles	
4756S	Catnip	
4766S	Chamomile, German	
4519S	Cilantro	
4536S	Dill, Fernleaf	
4556S	Fennel, Zefa Fino	
4616S	Marjoram	
4648S	Oregano, Greek	
3166S	Parsley, Forest Green	
3158S	Parsley, Gigante d'Italia	
4665S	Sage, Broadleaf	
4672S	Summer Savory	
4687S	Thyme, German	
6316S	Thyme, Creeping	
X01S*	Pepper (sweet), Amish Pimento	
3828S	Pepper (sweet), Banana Supreme	
3836S	Pepper (sweet), Elisa	
3815S	Pepper (sweet), Fat 'n Sassy	
3810S	Pepper (sweet), New Ace	

Item #	Variety	Quantity
3820S	Pepper (sweet), North Star	
3722S	Pepper (sweet), Purple Beauty	
3738S	Pepper (hot), Cubanelle	
3753S	Pepper (hot), Czech Black	
3872S	Pepper (hot), Garden Salsa	
3796S	Pepper (hot), Habanero	
3754S	Pepper (hot), Hungarian Hot Wax	
3764S	Pepper (hot), Early Jalapeño	
3770S	Pepper (hot), Long Red Narrow Cayenne	
3880S	Pepper (hot), Super Chili	
3783S	Pepper (hot), Thai Hot	
4260S	Tomato (slicer), Big Beef	
4060S	Tomato (slicer), Black Krim	
4075S	Tomato (slicer), Brandywine	
4267S	Tomato (slicer), Celebrity	
X02S*	Tomato (slicer), Costoluto Genovese	
4210S	Tomato (slicer), Early Cascade	
4205S	Tomato (slicer), Early Girl	
4058S	Tomato (slicer), Green Zebra	
4057S	Tomato (slicer), Rutgers	
4076S	Tomato (slicer), Yellow Brandywine	
4140S	Tomato (paste), Amish Paste	
4135S	Tomato (paste), Bellstar	
X03S*	Tomato (paste), Roma	
X04S*	Tomato (paste), San Marzano	
4116S	Tomato (cherry), Principe Borghese	
X05S*	Tomato (cherry), Red Currant	
4282S	Tomato (cherry), Sungold	
4296S	Tomato (cherry), Super Sweet 100	
X06S*	Tomato (cherry), Yellow Currant	

* described below

total number of seedlings

X01S - Amish Pimento (85 days) - Rich sweet fruity tasting 2x4" squat ribbed fleshy fruits, productive and relatively early. Ripen to a gleaming bright red. Possibly the sweetest peppers.

X02S - Costoluto Genovese (80 days, indeterminate) - John first grew these because of their romantic name. He grows them now because they're great tomatoes. Beautiful large red fruits, often over a pound and ribbed like a pumpkin. Large highly productive plants. A great paste tomato as well as a slicer.

X03S - Roma (78 days, determinate) - About the best paste tomato. Flavorful, meaty, very prolific and reliable.

X04S - San Marzano (80 days, determinate) - The classic Italian plum tomato, the one your Italian grandmother used (at least John's Italian grandmother). Excellent flavor.

X05S - Red Currant (65 days, indeterminate) - Among the smallest of the cherry tomatoes, these vigorous productive plants yield hundreds of tiny (1/2-3/4") vivid red fruits. Flavor is a wonderful combination of sweet and tart.

X06S - Yellow Currant (65 days, indeterminate) - The taxi cab yellow version of Red Currant (X04S), but milder and less acidic.

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